

SEQUENCE LISTING

<110> Arcturus Bioscience, Inc.
The General Hospital Corporation
Erlander, Mark G.
Ma, Xiao-Jun
Sgroi, Dennis C.

<120> Predicting Breast Cancer Treatment Outcome

<130> 022041-001420US

<140> US 10/773,761

<141> 2004-02-06

<150> US 60/504,087

<151> 2003-09-19

<150> US 10/727,100

<151> 2003-12-02

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<212> DNA

<213> Homo sapiens

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<211> 60

<212> DNA

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<223> Flurogenic MGB probe

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<210> 44

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<213> Homo sapiens

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<223> a or g or c or t/u

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<211> 467

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gtctctgctg gtgncacat tgggtgctgg tggcagggat ctatctaag tggaggcacg 720

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<210> 49

<211> 946

<212> DNA

<213> Homo sapiens

<400> 49

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tctaattccg ggagacttga gggacctccg agtagaacct gttacaacta gtgttgcaac 180

aggggactat tcaatttga tgaatgaag ctgggtactc cgggcagatg ccagcatccg 240

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tgtgaggtgc aattacacag aggccttcca gactcagacc agaccctctg gtggtaatg 360

gacattttcc tatatcggtt tccctgtaga gctgaacaca gtctatttca ttggggccca 420

taatattctt aatgcaaata tgaatgaaga tggcccttcc atgtctgtga atttcacctc 480

accaggaagc ctgtgggac cgaacatcac tgcttgaag aaagaatgag gagacagtag 540

aagtgaactt cacaaccact cccctgggaa acagatacat ggctcttacc caacacagca 600

ctatcatcgg gtttctcagg tgtttgagcc acaccagaag aaacaaacgc gagcttcagt 660

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tacttgtggc agcgactgca atccgacata aaggaacagt tgtgtctctg ccacaaacag 780

gcgtcccttt cctcttggga tagcaacaga agcaagccgg gaggtggtg cctcttcttc 840

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<210> 50

<211> 488

<212> DNA

<213> Homo sapiens

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 aatgctacat tagttagcaa ttttgaaaa tttattgg ataaaatgtt ttaattacta 180
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 gccatcgtag caggcttggt atcttttcc tgctgacacc tgctactga catggagaag 360
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<210> 51
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 51
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 ttagttaatg ctacattagt tagcaatatt tgaaaatttt attggtataa aatgttttaa 180
 ttactaaggc tgttttagg ctgcatagta agcttcagga tcatcacacg tttttccct 240
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 gcagcagcca tcgtggcagg cttgtgatct ttttctgct gacacctgct gcttgacatg 360
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<210> 52
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 52
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aatgctacat tagttagcaa tatttgaaaa tttattggt ataaaatgtt ttaattacta 180
aggctgtttg taggctgcat agtaagcttc aggatcatca cacgtttttt ccctgtaatt 240
gggtgggatag gaagccttta aggtctcttg cttctcatgg gtgggctaca aggagcagca 300
gccatcgtag caggcttctg atctttttcc tgctgacacc tgctgcttga catggagaag 360
ttctgcacag aaagcagtag catccttcat gaggtggtac ttggggcaga cactgagagc 420
attgtaatcg tctttgtat caatctctct aaagtagacc accacgtatt tgtgcagatg 480
aatctggctt cttagatcac tg 502

<210> 53
<211> 460
<212> DNA
<213> Homo sapiens

<400> 53
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agttaatgct acattagtta gcaatatttg aaaattttat tggataaaa tgttttaatt 180
actaaggctg ttttaggct gcatagtaag cttcaggatc atcacacgtt tttccctgt 240
aattggggg ataggaagcc ttaaggtct cttgcttctc atgggtgggc tacaaggagc 300
agcagccatc gtggcaggct tgtgatcttt ttctgctga cactgctgc ttgacatgga 360
gaagttctgc acagaaagca gtggcatcct tcatgaggtg gtacttgggg cagacactga 420
gagcattgta atcgcttttt gtatcaatct ctctaaagta 460

<210> 54
<211> 510
<212> DNA
<213> Homo sapiens

<400> 54
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aatgctacat tagttagcaa tatttgaaaa tttattggt ataaaatgtt ttaattacta 180

aggctgttg taggctgcat agtaagcttc aggatcatca cacgttttt ccctgtaatt 240
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 gccatcgtgg caggcttgtg atctttttcc tgctgacacc tgctgcttga catggagaag 360
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 aatctggctt cttagatcac tgcagaaaag 510

<210> 55
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 55
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 catagaccat gcattgcagt gtaccagaa ctgttttagct aatattctat gttaattaa 180
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 gaaccactt ttactggacc aaatgatcta ttatatgtgt accacttgta tgatttgga 360
 ttgcataag accttcctc tacaaactag attcatatct tgattctgt acaggtgcct 420
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<210> 56
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 56
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 acagttttta ttgaaaacta taaccatttt gataatgcaa caataaagca tcttcagcca 180
 aacatctagt ctccataga ccatgcattg cagtgtaccc agaactgttt agctaatt 240
 ctatgtttta ttaatgaata ctaactctaa gaaccctca ctgattcact caatagcatc 300

ttaagtgaac aaccttctat tacatgcaaa aaatcattgt tttaagata acaaaagtag 360
 ggaataaaca agctgaaccc acttttactg gaccaaata tctattatat gtgtaaccac 420
 ttgtatgatt tggatattgc ataagacctt ccctetacaa actagattca tatcttgatt 480
 cttgtacagg tgccttttaa catgaa 506

<210> 57
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 57
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 tgggtgggata ggaagccctt aaggctctctt gcttctcatg ggtgggctac aaggagcagc 180
 agccatcgtg gcaggcttgt gatcttttct ctgctgacac ctgctacttg acatggagaa 240
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 cattgtaac gtcttttcta tcaatctctc taaagtagac caccacgtat ttgtgcagat 360
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 agttctc 427

<210> 58
 <211> 467
 <212> DNA
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<220>
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 <222> (434)..(434)
 <223> a or g or c or t/u

<400> 58
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 gagttagtat tcattaatta aacatagaat attagctaaa cagttctggg tacactgcaa 180
 tgcattgtct atggaagact agatgtttgg ctgaagatgc ttattgttg cattatcaaa 240

atggttacag tttcaatta aagctgtaat tgatttctat gtataaaaca gctttgaagt 300
 tgtaaatgta gttccaatc gttagttaat gctacattag ttagcaatat ttgaaaattt 360
 tattggtata aaatgtttta attactaagg ctgtttgtag gctgcatagt aagcttcagg 420
 atcatcacac gttntttccc tgtaattggt gggataggaa gccttta 467

<210> 59
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 59
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 aagcctttaa ggtctcttgc ttctcatggg tgggctacaa ggagcagcag ccatcgtggc 180
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 cttttgtatc aatctctcta aagtagacca ccacgtattt gtgcagatga atctggcttc 360
 ttagatcact gcagaaaagg ttaaaggcaa gggggaagag gtcttgagag ttctactgg 420

<210> 60
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 60
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 taatgtaca ttagttagca atattgaaa atttattgg tataaaatgt ttaattact 180
 aaggctgttt gtaggcttgc atagaagctt caggatcatc acacgtttt tccctgtaat 240
 tgggtgggata ggaagccttt aaggtctctt gcttctcatg ggtgggctac aaggagcagc 300
 agccatcgtg gcaggcttgt gatcttttc ctgctgacac ctgctgcttg acatggagaa 360
 gttctgcaca gaaagcagtg gcacccctca tgagggtgta cttggggcag aactgagag 420
 cattgtaac gtct 434

<210> 61
<211> 416
<212> DNA
<213> Homo sapiens

<400> 61
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gataggaagc cttaaggctc tcttgcttct catgggtggg ctacaaggag cagcagccat 180
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aatcgtcttt tgtatcaatc tctctaaagt agaccaccac gtatttgtgc agatgaatct 360
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<210> 62
<211> 414
<212> DNA
<213> Homo sapiens

<400> 62
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ttaatgctac attagttagc aatattgaa aattttattg gtataaaatg tttaattac 180
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cagccatcgt ggcaggcttg tgatctttt cctgctgaca cctgctgctt gacatggaga 360
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<210> 63
<211> 409
<212> DNA
<213> Homo sapiens

<400> 63
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cagcagccat cgtggcaggc ttgtgatctt tttctgctg acacctgctg cttgacatgg 360
agaagttctg cacagaaagc agtggcatcc ttcatgaggt ggtacttgg 409

<210> 64
<211> 414
<212> DNA
<213> Homo sapiens

<400> 64
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agtcttccat agaccatgca ttgcagtgtc cccagaactg ttagctaata attctatgtt 180
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aaaaaccttc tattacatgc aaaaatcat tgtttttaag ataacaaaag tagggaataa 300
acaagctgaa cccactttta ctggaccaa tgatctatta tatgtgtaac cacttgatg 360
atttgattt gcataagacc ttcctctac aaactagatt catatcttga ttct 414

<210> 65
<211> 414
<212> DNA
<213> Homo sapiens

<400> 65
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gtcttccata gaccatgcat tgcagtgtac ccagaactgt ttagctaata ttctatgtt 180
aattaatgaa tactaactct aagaaccct cactgattca ctcaatagca tcttaagtga 240
aaaaccttct attacatgca aaaaatcatt gtttttaaga taacaaaagt agggaataaa 300
caagctgaac ccacttttac tggaccaa at gatctattat atgtgtaacc acttgatga 360
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<210> 66
<211> 484
<212> DNA
<213> Homo sapiens

<400> 66
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gataggaagc cttaaggctc tcttgcttct catgggtggg ctacaaggag cagcagccat 180

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aatcgtcttt tgtatcaatc tctctaaagt agaccaccac gtatttgtgc agatgaatct 360

ggcttcttag atcactgcag aaaagggtta aggcaagggg gaagaggtct tgagagttct 420

cactgggact gccctcgctc ttgccacagg taccatcgca cacactgttg acgtcattgg 480

aaag 484

<210> 67
<211> 398
<212> DNA
<213> Homo sapiens

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ccatcgtggc aggcttgtga tcttttctct gctgacacct gctgcttgac atggagaagt 360

tctgcacaga aagcagtggc atccttcatt aggtggta 398

<210> 68
<211> 401
<212> DNA

<213> Homo sapiens

<400> 68

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agccatcgtg gcaggcttgt gatcttttc ctgctgacac ctgctgcttg acatggagaa 360
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<210> 69

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (228)..(228)

<223> a or g or c or t/u

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agccatcgtg gcaggcttgt gatcttttc ctgctgacac ctgctgcttg acatggagaa 360
gttctgcaca gaaagcagtg gcatccttca tg 392

<210> 70

<211> 386

<212> DNA

<213> Homo sapiens

<400> 70

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<210> 71
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 71
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<210> 72
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 72
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386

<210> 73

<211> 373

<212> DNA

<213> Homo sapiens

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ggctgtttgt aggetgcata gtaagcttca ggatcatcac acgttttttc cctgtaattg 240

gtgggatagg aagcctttaa ggtctcttgc ttctcatggg tgggctacaa ggagcagcag 300

ccatcgtggc aggcttgtga tcttttctt gctgacacct gctgcttgac atggagaagt 360

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373

<210> 74

<211> 403

<212> DNA

<213> Homo sapiens

<400> 74

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agttaatgct acattagtta gcaatatttg aaaattttat tggataaaaa tgttttaatt 180

actaaggctg ttgtaggct gcatagtaag cttcaggatc atcacacgtt tttccctgt 240

tattggtggg ataggaagcc tttaaggtct cttgcttctc atgggtgggc tacaaggagc 300

agcagccatc gtggcaggct tgtgatcttt ttctgctga cacctgctgc ttgacatgga 360

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403

<210> 75

<211> 457

<212> DNA

<213> Homo sapiens

<400> 75

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 tgtatcaatc tctctaaagt agaccaccac gtatttgtgc agatgaatct ggcttcttag 360
 atcactgcag aaaagggttaa aggcaagggg gaagagggtct tgagagttct cactgggact 420
 gccctcgtc ttgccacagg taccatcgca cacactg 457

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 <211> 365
 <212> DNA
 <213> Homo sapiens

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 catagaccat gcattgcagt gtaccagaa ctgttttagct aatattctat gttaattaa 180
 tgaatactaa ctctaagaac cctcactga ttactcaat agcatcttaa gtgaaaaacc 240
 ttctattaca tgcaaaaaat cattgttttt aagataacaa aagtagggaa taaacaagct 300
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 gttaatgcta cattagttag caatatitga aaattttatt ggtataaaat gttttaatta 180
 ctaaggctgt tttaggctg catagtaagc ttaaggccca tcacacgttt ttccctgta 240
 attggtggga taggaagcct ttaaggctc ttgcttntca tgggtgggct acaaggagca 300
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<210> 78
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 aacgtgtaca aagtttaggt tcagaccccg ggagtcttgg gcacgtgggt ctgggtcac 180
 tggtttgac tttagggctt tgttacagat gtgtgaccaa ggggaaaatg tgcatacaca 240
 cactagaggt atgggcgaca cganaacgaa cggaagttt tggctgaagt aggagtcttg 300
 gtgagatttt gctctgatgc atggtgtgaa ctttctgagc ctctgtttt tctcaagct 360
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 <211> 394
 <212> DNA
 <213> Homo sapiens

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 cctttaaggt ctcttgcttc tcatgggtgg gctacaagga gcagcagcca tcgtggcagg 180
 cttgtgatct ttttctgct gacacctgct gcttgacatg gagaagttct gcacagaaag 240
 cagtggcatc ctctcatgagg tggctactgg ggcagacact gagagcattg taatcgtctt 300
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 gatcactgca gaaaagggtta aaggcaaggg ggga 394

<210> 80
 <211> 437
 <212> DNA
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<400> 80
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 ttgtgatctt ttttctgctg acacctgctg ctgacatgg agaagttctg cacagaaagc 240
 agtggcatcc ttcatgaggt ggtacttggg gcagacactg agagcattgt aatcgtcttt 300
 tgatcaatc tctctaaagt agaccaccac gtatttggtc agatgaatct ggcttcttag 360
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<210> 81
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 81
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 ggataggaag cctttaaggt ctcttgcttc tcatgggtgg gctacaagga gcagcagcca 180
 tcgtggcagg cttgtgatct ttttctgct gacacctgct gcttgacatg gagaagttct 240
 gcacaaaaag cagtggcatc ctctcatgagg tggctactgg ggcagacact gagagcattg 300

taatcgtctt ttgtatcaat c

321

<210> 82

<211> 321

<212> DNA

<213> Homo sapiens

<400> 82

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ggataggaag cctttaaggt ctcttgcttc tcatgggtgg gctacaagga gcagcagcca 180

tcgtggcagg cttgtgatct ttttctgct gacacctgct gcttgacatg gagaagttct 240

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<211> 314

<212> DNA

<213> Homo sapiens

<400> 83

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cagaactgtt tagctaatat tctatgttta attaatgaat actaactcta agaaccctc 180

actgattcac tcaatagcat ctttaagtga aaaccttcta ttacatgcaa aaaatcattg 240

ttttaagat aacaaaagta gggaataaac aagctgaacc cacttttact ggaccaaatg 300

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314

<210> 84

<211> 286

<212> DNA

<213> Homo sapiens

<400> 84

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atgctacatt agttagcaat atttgaaaat ttattggta taaaatgttt taattactaa 180

ggctgtttgt aggctgcata gtaagcttca ggatcatcac acgttttttc ccctgtatgg 240

gtgggatagg aagcctttaa ggtctcttgc ttctcatggg tgggct 286

<210> 85

<211> 333

<212> DNA

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atncaactnct ttctgtgcag actnnncatg tcaagcagca ggtgtcagca ggaaaaagan 180

cacaagctcc ncatggctg ctgctcctg tagcccncca tgagaagcaa gagncttaa 240

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<223> a or g or c or t/u

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 taatgctaca ttagttagca atatttgaaa attttattgg nataaaatgt ttaattact 180
 aaggctgttt gtaggctgca tagtaagctt caggatcadc acacgtttt nccctgtaat 240
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 agggagcagc cagcccatcg tggccagggc cttgtgganc cttttccct gcctggacac 360
 cctgcctgcc ttgaccatg gggaggaagg ttctggcacc aggaaagcca ggtggcccat 420
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<210> 87
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 <212> DNA
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 catgtaatag aaggttttc acttaagatg ctattgagt aatcagtgag gggttcttag 120
 agttagtatt cattaattaa acatagaata ttagctaac agttctgggt acactgcaat 180
 gcatggtcta tggaagacta gatgtttggc tgaagatgct tttattgtg cattatcaan 240
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<210> 88
 <211> 265
 <212> DNA
 <213> Homo sapiens

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<223> a or g or c or t/u

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<223> a or g or c or t/u

<400> 88
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atgctacatt agttagcaat attgaaaat tttattgga taaaatgttt taattactaa 180
ggctgtttgt aggcgtcata gtaagcttaa ngatcatacn caggttttc cctgaatttg 240
gtgggataan gaagccttta aaggt 265

<210> 89
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<212> DNA
<213> Homo sapiens

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tctcttgctt ctcatgggtg ggctacaagg agcagcagcc atcgtggcag gcttgtgatc 180

ttttctgc tgacacctgc tgcttgacat ggagaagttc tgcacagaaa gcagtggcat 240
 ccttcatgag gtggtacttg gggcagacac tgagagcatt gtaatcgtct ttgtatcaa 300
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<210> 90
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 ttttctact tgtggcagcg actgcatccg acataaagga acagttgtgc tctgccaca 180
 aacaggcgtc cctttccctc tggataacaa caaaagcaag ccggganggn ctgncctctc 240
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 aggcacgaaa ggatcaagaa gacttccttt tctaaccacc acattactgc cccccattta 360
 aggttcttgt ggttttacc atctggaaat atgtttccc ttacacatt tgtttatttc 420
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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tgagaactct caagacctct tcccccttgc cttaacctt ttctgcagtg atctaagaag 180
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tgcagaactt ctccatgtca agcagcaggt gtcagcagga aaaagattca caagcctgcc 360
acgatggctg cttgcttctt ttgtagccca cccatgagga agncaagaga ccttnaaagg 420
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aaaactgtaa ttgattncta tgtataaaac agctttgaag ttgtaaagt agtttccaat 120

cgtagttaa tgctacatta gttagcaata ttgaaaatt ttattggtat aaaangtttt 180

aattactaag gctgtttgta ggctgcatag taagcttcag gatcatcaca cgtttttccc 240
 ctgtaattgg tgggatagga agcctttaag gtctctngct tctcatgggt gggctacaag 300
 gagcagcagc catcgtggca ggcttgtgan ctttncctg ctgacacctg ctgcttgaca 360
 tgggagaagt tctgcacaga aaggcagtgg gcacccctca tgagggtgggt acttgggggn 420
 cagacactga ggagcattgt 440

<210> 93
 <211> 641
 <212> DNA
 <213> Homo sapiens

<400> 93
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 gtgggtgtct actttagaga gattgataca aaagacgatt acagtgtctc cagtgtctgc 240
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 cagcaggtgt cagcaggaaa aagatcacia gcctgccacg atggccgctg ctctttag 360
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<210> 94
 <211> 468
 <212> DNA
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agattcatct gcacaaatac gtggtggtct actttagaga gattgataca aaagacgatt 240
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 cagaacttct ccatgtcaag cagcaggtgt cagcaggaaa aagatcacia gcctgccacg 360
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agcaatattt gaaaatttta ttggtataaa atgttttaac tactaaggct gttttaggc 180

tgcatagtaa gcttcaggat catcacacgt ttttncctg taattgggtg gggataggga 240

agcctttaag gtctcttgct tctcatgggg tggggctaca agggaggcag gcagccatcg 300

tgggcagggc ttgtgatctt tttccctgct gacacctgct gcttgacatg gggggaaggt 360

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gagaactctc aagacctctt ccccttggc ttaaccttt tctgcagtga tctaagaagc 180
cagattcatt tgcacaaata cgtggtgggc tactttagag agattgatac aaaagacgat 240
tacaatgctc tcagtgtctg cccaagtac cacctcatga aggatgccac tgctttctgt 300
gcagaacttc tccatgtcaa gcagcaggtg tcagcaggaa aaagatcaca agcctgccac 360
gatngctgct gctccttgta gnccacccat gagaagcaag tgacctttaa aggnnttcct 420
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<400> 97

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 tftaattact aaggctgttt gtaggctgca tagtaagctt caggatcatc acacgtttt 240
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 aaggagcagc agccatcgtg gcaggtctgt gatcttttc ctgctgacac ctgctgcttg 360
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 actggacceca tctctgctat ttctttttc tgccacttt caaggatgac ctacttctg 180
 caatggtttt gaagaaatc agtgaagtaa caaattgtgt gatggaaaca tattcagat 240
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 aagggccttg ttagtgacag caaggaaaa catcctgatg ttccitttga acacatcacc 480
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 agggagtaac agcacaatac tccgtgaact tcggagccct ccaaaggaat actcaagggc 660
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<223> a or g or c or t/u

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ttctgtgcag aacttctcca tgtcaagcag caggtgtcag caggaaaaag atcacaagcc 180

tgccacgatg gctgctgctc cttgtagccc acctatgaga agcaagagac cttaaaggct 240

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<212> DNA
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gttaatgcta cattagtag caatattga aaattttatt ggtataaaat gttttaatta 180
ctaaggctgt tttaggctg catagtaagc ttcaggatca tcacacgttt tttccctgta 240
attgggtggg ataggaagcc ttaaggctc ctgcttctc attgggtggg ctacaaggag 300
cagcagccat cctgnggcaa ggctttgtgg atnct 335

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<211> 639
<212> DNA
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tctgctattt tctttattc gccactttc aaggatgacc tcacttctgc aatggtttg 180
aagaaagtc agtgaagtaa caaattgtg gatggaaaca tattcagat gggtaaacca 240
caagaacctt aatggggggc agtagtgtg tggtagaaaa ggaagtctc ttgatcctt 300
ctgtgagagg agaaaagcat tagttatctg tgaacagcaa acagcaggca ttcacatct 360
gtaaaccatc cctgacaaat gatcccttgc tagagaatgt cagctgagca ccaaggggcc 420

ttgttagtga cagcaaggac aaaacatcct gatgttcctt ttgaacacat cagctgaaac 480
 aactgatgc tctaaaccgt taactattta ttaatggggg aacatagggtc tcaactcatg 540
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 <223> a or g or c or t/u

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 cacaggtacc atcgacaca ctgttgacgt cattggaaag aaggaagacg actttgtctg 240
 ctgccttctt ttgagtggca agccactgca ctggacccat ctctgctatt ttcttttct 300
 gccactttc aaggatgacc tcacttctgc aatggtttg aagaaattca gtgaagtaac 360
 aaatntgtgt gatggaaaca tatttcagat gggtaaacca caagaacctt aatggggggc 420
 agtagtgtgg tgtagaaaa ggaagtcttc ttgaccttt ctgtgagagg agaaagc 477

<210> 103
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 <212> DNA
 <213> Homo sapiens

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 tatgtgttaa ttggctgttt atgttattgg taagacttcc agtcaacagt aggctattag 180
 aagttaagtt gtgggaaaat caaaggttat aggagatttt caactgcatg cagggccggt 240
 gccctcccca ctgtgttgtt caagggtcag ctgtactctc taagggttt gctaactca 300

aaacatggag tatttgaata cagaaaccag agcatttaca tactcagctc aaggcagage 360

tattaaaaaa actcctcttc tccatatgta ggaaaggaaa tacaaatgca tcctttgagt 420

catttgtgat gt 432

<210> 104
<211> 316
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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gccgggangan ctgncgtct cctctgctg tctctgctgg tggccacatg ggtgctggt 120

gcagggatct atctaattgtn gaggcacgaa agggatcaag aggacttcct ttctaccac 180
cacactactg cccccatta aggttcttgt nggtttaccc atctggaaat atgtttccat 240
cacacaattt gttacttcac tggaatttct tcaaaacccat tggcaggang tgagggtcat 300
ccttggaataa gtgggc 316

<210> 105
<211> 401
<212> DNA
<213> Homo sapiens
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<222> (274)..(274)
<223> a or g or c or t/u

<400> 105
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aggaagtctt ctgacactt tctgacctc acattagata gatccctgcc accagcacc 180
atgtggccac cagcagagac agcaggagga gaggcagcca gcctcccgcc ttgcttttg 240
ttgttatcca gaggggaaag gggacgcctg ttntggggc agagcacaac tgttccctc 300
gtgcccgaat tcttgggcc ttcgaggggc caaattccc tattaggtga ggtcgtatt 360
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<223> a or g or c or t/u

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<223> a or g or c or t/u

<220>
<221> misc_feature

<222> (483)..(483)
<223> a or g or c or t/u

<220>
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<222> (509)..(509)
<223> a or g or c or t/u

<400> 106
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cagttcttca cctaacagca tattgtctt ataactggta gagctgttc aaaggaagt 120
ggtttctggt ccaagtttg acctaaacca tgtccatct ctattaccag cactacaag 180
cactgtgaaa actgatcatg acaataagt aaaattgct acattaaaca tattgcctca 240
gccattacta agcgtccact tgtaaagctg gacacagtt ttactttatg ctccatttg 300
atttttatc cgtaagacat aaattagaag gcatgagggt gcccttaag gataatctgc 360
aaatatacac attttaata gtcattccatc tggaaatcgn tccaccattc caggggaagg 420
attccaggta ttggtgctgt ggtggaaata aagcattccc cngggaaaaa aaccatttta 480
tgnctaaata attaccacca ttaacctent ggggtt 516

<210> 107
<211> 187
<212> DNA
<213> Homo sapiens

<400> 107
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tctattacat gcaaaaaatc attgttttta agataacaaa agtagggaat aaacaagctg 120
aaccacttt tactggacca aatgatctat tatatgtgta accacttga tgattggga 180
tttgcatt 187

<210> 108
<211> 156
<212> DNA
<213> Homo sapiens

<400> 108
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tataaccatt ttgataatgc aacaataaag catcttcagc caaacatcta gtcttcata 120

gaccatgcat tgcagtgtac ccagaactgt ttagct

156

<210> 109
<211> 491
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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<222> (491)..(491)
<223> a or g or c or t/u

<400> 109
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ggtgtgagcc acggcgctg gcctaaaagc atcttttct ttaacgcaga ggttatgttg 120

tattattagc ataaatgttt tttctggga atgcttatt cacacagcac aatactgaat 180

cttctctgga atgtggatcg atttcagatg gatgactatt aaaatgtgta tatttcgaga 240

ttatccttaa agggccacct catgccttct aatttatgtc ttacggataa aaaatcaaaa 300

tgaagcataa agtaaaaact gtgtccagct ttacaagtgg acgcttagta atggctgagg 360

caatatgttt aatgtagcca aattttactt atttgtccat gatccagttt ttcacagtgc 420

ttgttaagtg ctggttaatta ggaaggtggg acatgggtta ggtcaaaaact tgggaccnga 480

aaccaacttg n 491

<210> 110
<211> 270
<212> DNA
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<400> 110
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aaactataac cattttgata atgcaacaat aaagcatctt cagccaaaca tctagtcttc 120

catagaccat gcattgcatt gtaccagaa ctgttttagct aatattctat gttaattaa 180

tgaatactaa ctctaagaac cctcactga ttactcaat agcatcttaa gtgaaaaacc 240

ttctattaca tgcaaaaaat cattggttt

270

<210> 111
<211> 478
<212> DNA
<213> Homo sapiens

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tacacagaag ggaaaaaat acacagtgca aaatggatgt tctgagtgcc acaaggatct 120

gctgaaaaaa gccaaagatg taagatggct gggtatatat gagaatgaat atttactat 180

attctgattc aattaccagt ctgagtggcc caggatgagc ttttgggtgtg gtcacatggc 240

caacatttgg ataacaatg aggaataatg gtaccgcctc actagtgcct gagaacagca 300

tgttctggaa aatgtctctg gagttagaga tgtgttagct ttttcattac agatggagaa 360

atacaatgtt tacacaacag tccaggggtg ggggtcaaaag ttggaagggtg tcattagacg 420

cagccaaata aagtgaagac aaccaggtg actggcagcc ctgacttgtg cgtgggagc 478

<210> 112
<211> 263
<212> DNA
<213> Homo sapiens

<400> 112
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acacagaagg gaaaaaata cacagtgcaa aatggatgtt ctgagtgcc caaggatctg 120

ctgaaaaaag ccaaagatgt aagatggctg ggtatatatg agaatgaata ttactata 180

ttctgattca attaccagtc tcagtggccc aggatgagct ttggtgggtg tcacatggcc 240

aacatttggg taacaaatga gga 263

<210> 113
<211> 388
<212> DNA
<213> Homo sapiens

<400> 113
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tgccaaagtg ctgggattgg aggcatgagc cactgcaccc acccctgttt ttttttaag 120
 taaaccatta taataactca ttataaaaa ggttacttca agagggttt caacttaaga 180
 attattttca ttttgaacat gaaaagtaa atagtaacta agaaactgag aactctgaca 240
 gtgacctcta ataggttaact ttaggcaaaa gtagacaagt ttgtgggtat tttgtgttc 300
 atgttaaaag gcacctgtac aagaatcaag atatgaatct agttttaga gggaaggctc 360
 tatgcaaata ccaaatcata caagtgg 388

<210> 114
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 114
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 gtaaaccatt ataataactc attataaaa aggttacttc aagagggtt tcaacttaag 180
 aattatttcc atttgaaca tgaaaagta aatagtaact aagaaactga gaactctgac 240
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 catgttaaaa ggcacctgta caagaatcaa gatatgaatc tagttttag aggggaaggtc 360
 ttatgcaaat accaaatcat acaagtgggt acacataaa tagatcattt ggtccagtaa 420
 aagtgggttc agctgttta ttcctactt 450

<210> 115
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 115
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<210> 116
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<213> Homo sapiens

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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ttatatgtat aaccacttgt atgatttgggt atttgcataa gaccttcct ctacaaacta 180

gattcatatc ttgattcttg tacaggtgcc ttttaatat tctgtgatga aatcggtcac 240

agtcagagta catgtctgct gcatatggga aatagggact gttgttctga gggacaaggc 300

actcaattca gccgtaaagg ctgacccggg ctacttttt tccangggaa tacaattttt 360

ttaccttgga ataaaatngg gcccgacngg ac 392

<210> 117

<211> 428

<212> DNA

<213> Homo sapiens

<400> 117

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gatctgctga aaaaaagcca aagatgtaag atggctgggt atatatgaga atgaatattt 180

cactatattc tgattcaatt accagtctca gtggcccagg atgagctttt ggtgtggtca 240

catggccaac atttggataa caaatgagga ataatggtac cgcctcacta gtgcctgaga 300
acagcatgtt ctggaaaatg tctctggagt tagagatgtg ttagctttt cattacagat 360
ggagaaatac aatgtttaca caacagtcca ggggtggggt caaaagtgg aaggtgtcat 420
tagacgca 428

<210> 118
<211> 430
<212> DNA
<213> Homo sapiens

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tagactagta tctgtatata tttctgcat ttatgacata ccttttctt catfttttfc 120
aatattttta ttgaaaagt catccgagt tcatctaagt ttttcaaag tgatacaat 180
ctccaaaaaa tttccaata tatgtattga aaaaatccag gtgtaagtgg ctctgcgcag 240
tccaaacctg tgtgttcaa gggtaactg tgtatgaatc caagcgaaag cttttctta 300
cacctcataa gaactatttt ttaaaaaaca ggaactagca tagagtaacc atcacaggta 360
aagtgttaatt tgtatcagc catcttttgc ccatttcagt actggtagaa ggcataatgg 420
taaaaataaa 430

<210> 119
<211> 368
<212> DNA
<213> Homo sapiens

<400> 119
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ttactctatg ctagtctctg tttttaaaa aatagttctt atgaggtgtt aagaaaagct 180
ttcgttggga ttcatacaca gttgaccctt gaacaacaca gggttggact gcgcagacca 240
cttacacctg gatfttttca atacatatat tggaaaattt ttgggggatt tgtatcactt 300
tgaaaaaact tagatgaaac tcggatggac tttccatta aaatattgga aaaaatgaag 360
aaaaaggt 368

<210> 120
<211> 435
<212> DNA
<213> Homo sapiens

<400> 120
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ctaccagtac tgaaatgggc aaaagatggc tgataacaaa ttacacttta cctgggatgg 120

ttactctatg ctagttcctg ttttttaaaa aatagttctt atgaggggtt aaaaaagct 180

ttcgcttggg ttacatacaca gttgaccctt gaacaacaca ggtttgact gcgcagagcc 240

acttacacct ggatttttcc aatacatata ttggaaaatt ttttgagat ttgtatcact 300

ttgaaaaaac ttgatgaaa ctcggtatgaa cttttcaatt aaaatattga aaaaaatgaa 360

gaaaaaggta tgcataaat gcagaaaatg tatacagata ctagtctact ttatcatttc 420

ctaccatacc aatag 435

<210> 121
<211> 880
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> (788)..(788)
<223> a or g or c or t/u

<400> 121
taaaggaaca gttgtgctct gccacaaac aggcgtccct ttcctctgg ataacagtaa 60

gtgccagta acttcaacca gatgatcaaa gtggctcaca cacagtcact gccccccact 120

cagtatgtgg aagggttgtg tgtatgtggg cagtgcagg ggtcgtgcc tgtgtacact 180

gaactggggt gcagagaaag ccaacagtgc tgtcccagag aacctagaat ctgagtaaga 240

acaggcttta ttgtaaaac cactcgtgac tctttacaaa gcaggatata cagaaggga 300

aaaaatacac agtgcaaaat ggatgttctg agtgccacaa ggatctgctg aaaaaagcca 360

aagatgtaag atggctgggt atatatgaga atgaatattt cactatatte tgattcaatt 420

accagtctca gtggcccagg atgagctttt ggtgtggtca catggccaac atttgataa 480

caaatgagga ataatgttac cgcctcacta gtgcctgaga acagcatgtt ctggaaaatg 540

tctctggagt tagagatgtg ttagctttt cattacagat ggagaaatac aatgtttaca 600
 caacagtcca ggggtggggg tcaaaagttg gaaggtgtca ttagacgcag ccaataaag 660
 tgaagaccac ccaggtgact ggcagccctg acttgtgcgt gggcgaaacc ttacagattc 720
 ctggggcact ctgtgcctga acttacctgg atggtctttg tgaggcgggt gggcacttat 780
 cctccatnaa tggtcagtct aacaagaccg gcctgtaaaa atggcatcta ataggggcta 840
 tggaatggaa aacagttggt acccagaaat aactttaatt 880

<210> 122
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> a or g or c or t/u

<220>
 <221> misc_feature
 <222> (192)..(192)
 <223> a or g or c or t/u

<400> 122
 gacagtctgg gagcccagag ctctgggagg agtngggaaa atgctgcttc ctgctgcttg 60
 ctcttaggca cctgcttccg ccatctcact taccatggct agagatgggg gtgagactgg 120
 ggaaggacaa aagcagggaa cagataaggg atggaaatca gaagggaata tagaaagaac 180
 tctggatatg cnagaaatgc cggtaacctga gcattttgta tcaatgggag taccctctgt 240
 aactgctcag taggttacia atgaagagtc caccagtatt agaacaatt taaacttgcc 300
 agtaccact gggatgtgtg ccttcaattt gaaaattgta tgttttatt tttaaattg 360
 gttaacagca ttaattata gagtatttga tgtcatttat ggttcccgag gtgtttccaa 420
 cacaattttt gggatca 437

<210> 123
 <211> 1107
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (893)..(893)

<223> a or g or c or t/u

<400> 123

cttttaatag ttaaaatag taactattgg tatggttaga aatgataaag tagactagta 60
tctgtataca ttttctgcat ttatgacata cctttttctt cattttttct aatattttaa 120
ttgaaaagtt catccgagtt tcactaagt ttttcaaag tgatacaaat ctccaaaaaa 180
ttttccaata tatgtattga aaaaatccag gtgtaagtgg ctctgcgcag tccaaacctg 240
tgttgttcaa gggtaactg tgtatgaatc caagcgaaag cttttcttaa cacctcataa 300
gaactatttt ttaaaaaaca ggaactagca tagagtaacc atcacaggta aagtgttaatt 360
tgttatcage catcttttgc ccatttcagt actggttagaa ggctcaatgg taaaaataaa 420
aacgggacag tcagaagatc tggaagtctt gaccctgctt tcacctggca tgtgtaatcc 480
agtcatgctc gtatcagtct ctgtaggagc acttgaaggt attacataaa tgctatctaa 540
ctctgggaaa cgccaacatg tgattgcctc cagaggaatc ttctttaaaa aaaaattcaa 600
aatgttattt ccttactagg atgtctttaa agaattataa cccttaccgt gcctccacat 660
tagatagatc cctgccacca gcacccatgt ggccaccagc agagacagca ggaggagagg 720
cagccagcct cccggcttgc tttgtctgg aaaaaaaca agcttattca ccttggaaa 780
aaaatccaca cttatctctt aatttaaaaa ctaagacttg gtatacttta tagagggtta 840
tttatttttt attatttttt agttttgaga cagagtctcg ctttgttgcc tangctggag 900
tgcagtggcg caatctcggg tcaactgcagc ctccgttctc cggggttcaa ggcagtctgg 960
ctcagcctcc tgtatagctg gggattaaag gcatgtgttc acgcggccca gccccttttg 1020
taaaagattt agatcccttt taaaaccatc agtcaggagg ctctttaa aagtctggcc 1080
atctaattct ttttcccca aaagggg 1107

<210> 124

<211> 290

<212> DNA

<213> Homo sapiens

<400> 124

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tttacaagc aggatacaca gaaggga aaa aaatacacag tgcaaatgg atgttctgag 120
 tgccacaagg atctgctgaa aaaagccaaa gatgtaagat ggctgggtat atatgagaat 180
 gaatatcca ctatattctg attcaattac cagtctcagt ggcccaggat gagcttttgg 240
 tgtggtcaca tggccaacat ttggataaca aatgaggaat aatctcgtgc 290

<210> 125
 <211> 812
 <212> DNA
 <213> Homo sapiens

<400> 125
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 gctgcctgtt tgcaaaaaca taatatattt ctgttaaaca gttcttcacc taacagcata 120
 ttgctcttat aactggtaga gctgtttcaa aggaagtgg tttctgggcc aagttttgac 180
 ctaaaccatg tccatcttct attaccagca cttaacagca ctgtgaaaac tgatcatgac 240
 aaataagtaa aatttgetac attaaacata ttgcctcagc cattactaag cgtccacttg 300
 taaagctgga cacagttttt actttatgct tcattttgat tttttatccg taagacataa 360
 attagaaggc atgaggtggc ccttaagga taatctgcaa atatacacat ttaaatagtc 420
 atccatctga aatcgatcca cattccagag aagattcagt attgtgctgt gtgaaataag 480
 cattcccaga aaaaaaacat ttatgctaata aatacaacat aacctctgca ttaaagaaaa 540
 agatgctttt aggccaggcg ccgtgggtca cgcctgtaat ccctgcactt tgagaggctg 600
 aggtgggtgg atcatgaggt caggagatca agaccatcct ggctaacagg gtgaaacccc 660
 gtctctactg gggatataac aaagttagct ggggtgtggtg gtgggtgctt gtgtgccag 720
 ctactcagga ggctgaggca ggagaatggc gtgaaccggg aaggcagagg ttgtagtac 780
 gcgaggttca cgccactgca ttccagtctg gg 812

<210> 126
 <211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (8)..(8)

<223> a or g or c or t/u

<400> 126

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ttttcacagt aggaactagg gtttctgtcc agttttttg gttctttaag gaattaatgt 120
tattctgggt acaactgctt acatacatag cacatataga tgacattttt acaggccgtc 180
ttgttagact gacatacatg gaggatagtg ccaccgcct cacaagaaca tcaggtaagc 240
tcaggcacag agtgcccagg aatctgtaag gcttcgcca cgcacaagtc agggctgcca 300
gtcacctggg ttgtcttcac ttattttggc tgcgtctaata gacaccttcc aacttttgac 360
cccaccctg gactgttgtg taaacattgt atttctccat ctgtaatgaa aaagctaaca 420
catctctaac tcagagaca ttctccagaa catgctgttc tcaggcacta gtgaggcggt 480
accattatc ctcatttgtt atccaatgt tggccatgtg accacacaa aagctcatcc 540
tgggccactg agactggtaa ttgaatcaga atagtgaa atattcattc tcatatatac 600
ccagccatct tacatctttg gctttttca gcagatcctt gtggcactca gaacatccat 660
tttgactgt gtattttt 679

<210> 127

<211> 449

<212> DNA

<213> Homo sapiens

<400> 127

aaatttttaa cttttaatag ttaaaatagt taactattgg tatggttaga aatgataaag 60
tagactagta tctgtatata tttctgcat ttatgacata ctttttctt cattttttc 120
aatattttaa ttgaaaagtt catccgagtt tcactaagt ttttcaaag tgatacaaat 180
ctccaaaaaa ttccaata tatgtattga aaaaatccag gtgtaagtgg ctctgcgcag 240
tccaaacctg tgtgttcaa gggtaactg tgtatgaatc caagcgaaag cttttcttaa 300
cacctcataa gaactatttt ttaaaaaaca ggaactagca tagagtaacc atcacaggta 360
aagtgaatt tgtatcagc catcttttgc ccatttcagt actggtagaa ggctcaatgg 420
taaaaataaa aacgggacag tcagaaaaa 449

<210> 128
<211> 396
<212> DNA
<213> Homo sapiens

<400> 128
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acagaaggga aaaaaatata cagtgcacaaa tggatgttct gaggccaca aggatctgct 120
gaaaaaagcc aaagatgtaa gatggctggg tatatatgag aatgaatatt tcactatatt 180
ctgattcaat taccagtctc agtggcccag gatgagcttt tgggtggtc acatggccaa 240
catttgata acaaatgagg aataatgga ccgcctcact agtcctgag aacagcatgt 300
tctggaaaat gtctctggag ttagagatgt gttagctttt tcattacaga tggagaaata 360
caatgtttac acaacagtcc aggggtgggg tcaaag 396

<210> 129
<211> 232
<212> DNA
<213> Homo sapiens

<400> 129
ctgactgtcc cgTTTTtatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60
gatggctgat aacaaattac actttacctg tgatggttac tctatgctag ttctgtttt 120
ttaaaaaata gttcttatga ggtgtaaga aaagctttcg cttggattca tacacagttg 180
accctgaac aacacaggtt tggactgcgc agagccaccc tcgtgccgaa tt 232

<210> 130
<211> 185
<212> DNA
<213> Homo sapiens

<400> 130
ctgactgtcc cgTTTTtatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60
gatggctgat aacaaattac actttacctg tgatggttac tctatgctag ttctgtttt 120
ttaaaaaata gttcttatga ggtgtaaga aaagctttcg cttggattca tacacagttg 180
accct 185

<210> 131
<211> 726
<212> DNA
<213> Homo sapiens

<400> 131
ggaaatgata aagtagacta gtatctgtat acattttctg catttatgac atacctttt 60
cttcattttt ttcaatattt taattgaaaa gttcaccca gtctcatcta agttttttca 120
aagtgataca aatcccaaa aaattttcca atatgtgtat tgaaaaaatc caggtgtaag 180
tggctctgcg cagtcctaac ctgtgtgtgt caagggtcaa ctgtgtatga atccaagcga 240
aagcttttct taacacctca taagaactat ttttaaaaa acaggaacta gcatagagta 300
accatcacag gtaagtgtat atttgttate agccatcttt gccatttca gtactggtag 360
aaggctcaat ggtaaaaaata aaaacgggac agtcagaaga tctggaagtc ctgaccctgc 420
ttcacctgg catgtgtaat ccagtcatgc tcgtatcagt ctctgtagga gcactgaag 480
gtattacata aatgctatct aactctggga aacgccaaca tgtgattgcc tccagaggaa 540
tcttctttaa aaaaaaatc aaaatgttat ttcttacta ggatgtcttt aaagaattat 600
aaccttacc gtgcctccac attagataga tccctgcaac agacctatgt ggcaccagca 660
gagacagcag gaggagaggc agcagctccc gggtgtttgt ctggaaaaac aaaggttate 720
actttg 726

<210> 132
<211> 185
<212> DNA
<213> Homo sapiens

<400> 132
ctgactgtcc cgtttttatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60
gatggctgat aacaaattac actttacctg tgatggttac tctatgctag ttctgtttt 120
ttaaaaaata gttcttatga ggtgttaaga aaagctttcg ctggattca tacacagttg 180
accct 185

<210> 133
<211> 291
<212> DNA

<213> Homo sapiens

<400> 133

gcacgagatt attcctcatt tgttatccaa atgttggcca tgtgaccaca ccaaaagctc 60

atcctgggcc actgagactg gtaattgaat cagaatatag tgaatatc attctcatat 120

ataccagcc atcttacatc ttggctttt ttcagcagat ccttgtggca ctcagaacat 180

ccattttgca ctgtgtattt tttcccttc tgtgtatcct gctttgtaa gagtcacgag 240

tggttttaca aataaagcct gttcttactc agaaaaaaaa aaaaaaaaaa a 291

<210> 134

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(2)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (770)..(770)

<223> a or g or c or t/u

<400> 134

nnttgaacag gcgtgacggt ccggattccc gggatgttgt gctctgccca caaacaggcg 60

tccctttccc tctggataac aacaaaagca agccgggagg ctggctgcct ctcctcctgc 120

tgtctctgct ggtggccaca tgggtgctgg tggcagggat ctatctaagc tggaggcacg 180

aaagatcaa gaagacttcc tttctacca ccactact gccccccatt aagtttcttg 240

tggtttaccc atctgaaata tgtttccatc acacaatttg ttacttact gaatttctc 300

aaaaccattg cagaagttag gtcaccttg aaaagtggca gaaaagaaa atagcagaga 360

tgggtccagt gcagtggctt gccactcaaa agaaggcagc agacaaagtc gtcttccttc 420

tttccaatga cgtcaacagt gtgtgcgatg gtacctgtgg caagagcgag ggcagtccca 480

gtgagaactc tcaagacctc ttcccccttg cctttaacct ttctgcagt gatctaagaa 540

gccagattca tctgcacaaa tacgtggtgg tctacttag agagattgat acaaaagacg 600

attacaatgc tctcagtgtc tgcccaagt accacctcat gaaggatgcc actgctttct 660

gtgcagaact tctccatgtc aagcagcagg tgtcagcagg aaaaagatca caagcctgcc 720
 acgatggctg ctgctccttg tagccacccc atgagaagca agagacctn aaggcttct 780
 atcccacat tacag 795

<210> 135
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 135
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 aaagcaggat acacagaagg gaaaaaata cacagggcaa aatggatgtt ctgagtgcc 120
 caaggatctg ctgaaaaaag ccaaagatgt aagatggctg ggtatatatg agaatgaata 180
 ttccactata ttctgattca attaccagtc tcagtggccc aggatgagct ttgggtgtgg 240
 tcacatggcc aacatttga taacaaatga ggaataatgg taccgcctca ctagtgcctg 300
 agaacagcat gttctggaaa atgtctctgg agttagagat gtgtagctt tttcattaca 360
 gatggagaaa tacaatgttt acacaac 387

<210> 136
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 136
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 taatgcagct attaccactg gtggccagg ctctggtgaa gccctctgag cccaggagga 120
 agagaaagca ttgtccagag gtaggaacac agtctgggag cccagagctc tgggaggagt 180
 gggaaaatgc tgcttctgc tgcttcttc taggcacctg ctccgccat ctacttacc 240
 atggctagag atgggggtga gactggggaa ggacaaaagc agggaacaga taagggatgg 300
 aaatcagaag ggaatataga aagaactctg gatgtggaga aatgccgta cctgagcatt 360
 ttgtatcaat gggagtaccc tctgtaactg ctcatgaggt tacaatgaa gagtccacca 420
 gtattagaaa caattaaac ttgccagtac caactgggat gtgtgccttc aatttgaata 480
 ttgtatgttt tatttttaa attgttaac agcattaatt tatagagtat tgatgtcatt 540

tatgtttctg aggtgtttca a

561

<210> 137

<211> 476

<212> DNA

<213> Homo sapiens

<400> 137

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acagaaggga aaaaaataca cagtgcataa tggatgttct gaggccaca aggatctgct 120

gaaaaagcc aaagatgtaa gatggctggg tatatatgag aatgaatatt tcactatatt 180

ctgattcaat taccagtctc agtggcccag gatgagcttt tgggtgggc acatggccaa 240

catttgata acaaatgagg aataatgga ccgcctcact agtgcctgag aacagcatgt 300

tctggaaaat gtctctggag ttagagatgt gttagctttt tcattacaga tggagaaata 360

caatgtttac acaacagtcc aggggtgggg tcaaaagttg gaaggtgtca ttagacgcag 420

ccaataaag tgaagacaac ccaggtgact ggcagccctg acttgtgcgt gggcga 476

<210> 138

<211> 186

<212> DNA

<213> Homo sapiens

<400> 138

ctgactgtcc cgTTTTtatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60

gatggctgat aacaaattac actttacctg tgatggttac tctatgctag taccctgttt 120

tttaaaaaat agttcttatg aggtgttaag aaaagcttgc gcttggatc atacacagt 180

gaccct

186

<210> 139

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (255)..(255)

<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (260)..(260)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (307)..(307)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (350)..(350)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (406)..(406)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (431)..(431)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (446)..(446)
<223> a or g or c or t/u

<400> 139
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tttcacagta ggaactaggg ttctgtcca gttttttgg ttcttaagg aattaatgtt 120
attctgggta caactgctta catacatagc acatatagat gacatttta caggccgtct 180
tgttagactg acatacatgg aggatagtc caccgcctc acaagaacat caggtaaagt 240
caggcacaga gtcnagggg atctgtaagg gcttcgccca cgcacaagtc agggctgcc 300
gtcacnggg ttgtcttcac ttatttggg ctgcgtctaa tgacacctn ccaactttt 360
gacccaccc tggggettgt tgtgtaaacc attgtattt ctccntctg taatggaaaa 420
aggttaacac nttttaact tccgngaca tttttc 456

<210> 140
<211> 1816
<212> DNA

<213> Homo sapiens

<400> 140

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cgagagccga cgttcaatg tggctctgaa actgggcat ctccagagtg gatgctacaa 120
catgatctaa tccccggaga ctgagggac ctccagtag aacctgttac aactagtgt 180
gcaacagggg actattcaat ttgatgaat gtaagctggg tactccgggc agatgccagc 240
atccgcttgt tgaaggccac caagatttgt gtgacgggca aaagcaactt ccagtcctac 300
agctgtgtga ggtgcaatta cacagaggcc ttccagactc agaccagacc ctctggtggt 360
aatggacat ttctcatc cggcttcct gtagagtga acacagtcta ttctattggg 420
gcccataata ttctaatagc aaatatgaat gaagatggcc ctccatgtc tgtgaatttc 480
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agcctgtggg atccgaacat cactgcttgt aagaagaatg aggagacagt agaagtgaac 600
ttcacaacca ctccctggg aaacagatac atggctctta tccaacacag cactatcatc 660
gggttttctc aggtgttga gccacaccag aagaacaaa cgcgagcttc agtgggtgatt 720
ccagtgactg gggatagtga aggtgctacg gtgcagctga ctccatattt tctacttgt 780
ggcagcgact gcacccgaca taaaggaaca gttgtgctct gccacaaac aggcgtccct 840
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aatgacgtca acagtgtgtg cgatgtacc tgtggcaaga gcgagggcag tccagtgag 1260
aactctcaag actcttcccc ttgcctttaa cctttctgc agtgatctaa gaagccagat 1320
tcactgcac aaatacgtgg tggctactt tagagagatt gatacaaaag acgattacaa 1380
tgctctcagt gtctgcccc agtaccacct catgaaggat gccactgctt tctgtgcaga 1440
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caattacagg gaaaaaacgt gtgatgatcc tgaagcttac tatgcagcct acaaacagcc 1620
ttagtaatta aaacatttta taccaataaa attttcaaat attgctaact aatgtagcat 1680
taactaacga ttgaaacta catttacaac ttcaaagctg ttttatacat agaaatcaat 1740
tacagtttta attgaaaact ataaccattt tgataatgca acaataaagc atcttcagcc 1800
aaaaaaaaa aaaaaa 1816

<210> 141
<211> 1828
<212> DNA
<213> Homo sapiens

<400> 141
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atctaataccc cggagacttg agggacctcc gagtagaacc tgttacaact agtgttgcaa 180
caggggacta ttcaattttg atgaatgtaa gctgggtact ccgggcagat gccagcatcc 240
gcttgttgaa ggccaccaag atttgtgtga cgggcaaaag caacttcag tcctacagct 300
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ggacatttcc ctatateggc ttccctgtag agctgaacac agtctatttc attggggccc 420
ataatatccc taatgcaaat atgaatgaag atggcccttc catgtctgtg aattcacct 480
caccaggctg cctagaccac ataataaat ataaaaaaaa gtgtgtcaag gccggaagcc 540
tgtgggatcc gaacatcact gcttgaaga agaatagagga gacagtagaa gtgaacttca 600
caaccactcc cctgggaaac agatacatgg ctcttatcca acacagcact atcatcgggt 660
ttctcaggt gtttgagcca caccagaaga aacaaacgcg agcttcagtgt gtgattccag 720
tgactgggga tagtgaaggt gctacggtgc agctgactcc atattttcct acttgtggca 780
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 <213> Homo sapiens

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 <223> a or g or c or t/u

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 <212> DNA
 <213> Homo sapiens

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 caggggaaaa acgtgtgatg atc 1583

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 <211> 2584
 <212> DNA
 <213> Homo sapiens

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 <211> 665
 <212> DNA
 <213> Homo sapiens

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 atatttcaat atattctgat tcaattacca gtctcagtgg cccaggatga gcttttgggtg 240
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acagatggag aaatacaatg ttacacaac agtcagggg tgggtcaaa agttggaagg 420
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 tgcgtgggcg aagccttaca gattcctggg cactctgtgc ctgagcttac ctgatgttct 540
 tgtgaggcgg gtggcactat cctccatgta tgtcagtcta acaagacggc ctgtaaaaat 600
 gtcactata tgtgctatgt atgtaagcag ttgtaccag aataacatta atcctcgtgc 660
 cgaat 665

<210> 146
 <211> 664
 <212> DNA
 <213> Homo sapiens

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 <222> (613)..(613)
 <223> a or g or c or t/u

<400> 146
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 agtttccaat cgtagttaa tgctacatta gtagcaata ttgaaaatt ttattggtat 180
 aaaatgtttt aattactaag gctgtttgta ggctgcatag taagcttcag gatcatcaca 240
 cgtttttcc ctgtaattgg tgggatagga agcctttaag gtctcttgc tctcatgggt 300
 gggctacaag gagcagcagc catcgtggca ggcttgtgat cttttcctg ctgacacctg 360
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 ggggcagaca ctgagagcat tgaatcgtc tttgtatca atctctctaa agtagaccac 480
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 ggggaagagg tcttgagagt tctcactggg actgccctcg ctcttgccac aggtaccatc 600
 gcacacactg ttnacgtcat tggaaagaag gaagacgact ttgtctgtg ccttcttttg 660
 agtg 664

<210> 147
 <211> 739

<212> DNA
<213> Homo sapiens

<400> 147

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gccgtagggg gagcttagag gaagaaagaa aacaattttt atttggccaa aacagaacaa 180
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gctagagatg ggggtgagac tggggaagga cacaagcagg gaacagataa gggatggaaa 660
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tatcaatggg agtacctct 739

<210> 148
<211> 657
<212> DNA
<213> Homo sapiens

<400> 148

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gtttccaatc gttagtaat gctacattag ttagcaatat ttgaaaattt tattggtata 180
aaatgttta attactaagg ctgttttag gctgcatagt aagcttcagg atcatcacac 240
gtttttttcc ctgtaattgg tgggatagga agcctttaag gtctcttctc tctcatgggt 300
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cacgtatttg tgcagatgaa tctggcttct tagatcactg cagaaaagg taaaggcaag 540

ggggaagagg tcttgagagt tctcactggg acttgcctcg ctcttgccac aggtaccatc 600

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<210> 149

<211> 102

<212> DNA

<213> Homo sapiens

<400> 149

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ttgatttcta tgtataaaac agctttgaag ttgtaaatgt ag 102

<210> 150

<211> 187

<212> DNA

<213> Homo sapiens

<400> 150

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taacgattgg aaactacatt tacaacttca aagctgtttt atacatagaa atcaattaca 120

gctttaattg aaaactgtaa ccattttgat aatgcaacaa taaagcatct tcagccaaaa 180

aaaaaaaa 187

<210> 151

<211> 361

<212> DNA

<213> Homo sapiens

<400> 151

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agacaaagtc gtcttccttc ttccaatga cgtcaacagt gtgtgcgatg gtacctgtgg 120

caagagcgag ggcagtccca gtgagaactc tcaagacctc ttccccctt gcctttaacc 180

ttttctgcag tgatctaaga agccagattc atctgcacaa atacgtggtg gtctacttta 240

gagagattga taaaaagac gattacaatg ctctcagtgt ctgcccgaag taccacctca 300

tgaaggatgc cactgctttc tgtgcagaac ttctccatgt caagcagcag gtttcagcag 360

<210> 152
<211> 783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (707)..(707)
<223> a or g or c or t/u

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gtttccaatc gttagttaat gctacattag ttagcaatat ttgaaaattt tattggtata 180

aatgtttta attactaagg ctgtttgtag gctgcatagt aagcttcagg atcatcacac 240

gtttttccc tgtaattggt gggataggaa gcctttaagg tctcttgctt ctcattgggtg 300

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tat 783

<210> 153
<211> 399
<212> DNA
<213> Homo sapiens

<400> 153
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<210> 154
<211> 518
<212> DNA
<213> Homo sapiens

<220>
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<222> (503)..(503)
<223> a or g or c or t/u

<400> 154
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gcaatatgtt taatgtagca aattttactt attgtcatg atcagtttct acagtgttg 420
taagtgtggt taatagaaga tggacatggt ttaggtcaaa acttggaacca gaaaccaact 480
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<210> 155
<211> 490
<212> DNA
<213> Homo sapiens

<400> 155
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tcactctgc aatggtttg aagaaattca gtgaagtaac aaattgtgtg atggaacat 180
 atttcagatg ggtaaaccac aagaacctta atggggggca gtagtgtgtg gtagaaaag 240
 gaagtcttct tgatccttc tgtgagagga gaaaagcatt tgttatctgt gaacagcaaa 300
 cagcaggctt tcactctgta aaccatccct gacaaatgat cccttgctag agaatgtcag 360
 ctgagcacca agggccttgt tagtgacagc aaggaaaaac atcctgatgt tccttttgaa 420
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 ctactctgt 490

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 <212> DNA
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 gaatatcca ctatattctg attcaattac cagtctcagt ggcccaggat gagcttttgg 240
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 gcctgagaac agcatgttct ggaaaatgtc tctggagtta gagatgtgtt agcttttca 360
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 g 421

<210> 157
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 <212> DNA
 <213> Homo sapiens

<400> 157
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 gttccaatc gttagttaat gctacattag ttagcaatat ttgaaaattt tattggtata 180
 aaatgttta attactaagg ctgtttgtag gctgcatagt aagcttcagg atcatcacac 240

gtttttccc tgtaattggt gggataggaa gcctttaagg tctcttgctt ctcattgggtg 300
ggctacaagg agcagcagcc atcgtggcag gcttgtgatc ttttcctgc tgacacctgc 360
tgcttgacat ggagaagttc tgcacagaaa gcagtggcat ccttcattgag gtggtacgtg 420
gggcagacac tgagagcatt gtaatcgtct tttgtatcaa tctctctaaa gtagaccacc 480
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gggaaga 547

<210> 158
<211> 644
<212> DNA
<213> Homo sapiens

<400> 158
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atttttacca ttgagccttc taccagtact gaaatgggca aaagatggct gataacaat 120
tacactttac ctgtgatggt tactctatgc tagttcctgt ttttaaaaa atagttctta 180
tgagggtgta agaaaagctt tegcttgat tcatacacag ttgacccttg aacaacacag 240
gtttggactg cgcagagcca cttacacctg gattttttca atacatatat tggaaaattt 300
tttgagatt tgtatcactt tgaaaaaact tagatgaaac tcggatgaac tttcaatta 360
aaatattgaa aaaaatgaag aaaaaggtat gtcataaatg cagaaaatgt atacagatac 420
tagtctactt tatcatttcc taccatacca atagttaact attttaacta ttaaaagtta 480
aaaatttate aaaacttaaa cacacacata ccaactgtac atggcaccat tcacagttga 540
gagaaacgtg agcataaaga tgttggtatta aatcataact gcatacaatt aattgcagtg 600
cgtactgtcc tgctgtgaat atttctagc cctcgtgccg aatc 644

<210> 159
<211> 470
<212> DNA
<213> Homo sapiens

<400> 159
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ccaatgacgt caacagtgtg tgcgatggta cctgtggcaa gagcgagggc agtcccagtg 120

agaactctca agacctcttc ccccttgcct ttaacctttt ctgcagtgat ctaagaagcc 180
agattcatct gcacaaatac gtgggtgtct actttagaga gattgataca aaagacgatt 240
acaatgctct cagtgtctgc cccaagtacc acctcatgaa ggatgccact gctttctgtg 300
cataacttct ccatgtcaag cagcaggtgt cagcaggaaa aagatcacia gcctgccacg 360
atggctgctg ctctttagtag cccacccatg agaagcaaga gacctaaag gcttcctatc 420
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<210> 160
<211> 499
<212> DNA
<213> Homo sapiens

<400> 160
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cgtggcaggc ttgtgatctt tttcctgctg acacctgctg cttgacatgg agaagttatg 180
cacagaaagc agtggcatcc ttcattaggt ggtacttggg gcagacactg agagcattgt 240
aatcgtcttt tgtatcaatc tctctaaagt agaccaccac gtatttgtgc agatgaatct 300
ggcttcttag atcactgcag aaaaggtaa aggcaagggg gaagaggtct tgagagttct 360
cactgggact gccctcgctc ttgccacagg taccatcgca cacactgttg acgtcattgg 420
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caagccacgg tcaaccac 499

<210> 161
<211> 615
<212> DNA
<213> Homo sapiens

<400> 161
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ttgactttag ggctttgtta cagatgtgtg accaagggga aaatgtgcat gacaacacta 180
gaggtagggg cgaagccaga aagaaggga gttttggctg aagtaggagt cttgcgactg 240

catccgacat aaaggaacag ttgtgctctg cccacaaaca ggcgtccctt tccctctgga 300
taacaacaaa agcaagccgg gaggctggct gcctctcctc ctgctgtctc tgctgggtggc 360
cacatgggtg ctgggtggcag ggatctatct aatgtggagg cacgaaagga tcaagaagac 420
ttccttttct accaccacac tactgcccc cattaagggt cttgtggttt acccatctga 480
aatatgttc catcacacaa ttgttactt cactgaattt cttcaaaacc attgcagaag 540
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<210> 162
<211> 636
<212> DNA
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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<222> (323)..(323)
<223> a or g or c or t/u

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<221> misc_feature
<222> (463)..(463)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (467)..(467)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (502)..(502)
<223> a or g or c or t/u

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<222> (507)..(507)
<223> a or g or c or t/u

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<221> misc_feature
<222> (595)..(595)
<223> a or g or c or t/u

<220>
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<222> (600)..(600)
<223> a or g or c or t/u

<400> 162
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agtaacgtgt acaaagtta gggtcagacc ccgggagtct tgggcatgtg ggtctcgggt 180
cactggtttt gactttaggg cntgtttaca gatgtgtgac caaggggaaa atgtgcatga 240
caacactaga gctgactcca tatttccta ctgtggcag cgactgcac cgacataaag 300
gaacagtgt gctctgccca canacaggcg tccctttccc tctggataac aacataagca 360
agccgggagg ctggctgcct ctctcctgc tgtctctgct ggtggcacat ggtgctggt 420
ggagggatct atctaattgt gaggcacgga tcaagaagac ttcttntct accaccacac 480
tactggcccc aataagggtc tngtggntac cccatctgaa tatgttcata cacaattgt 540
actcactgaa ttctcaaaac attgagagtg aggcacctg aaagtgcgaa aaganatgcn 600
aatggtcagt gcattgtgca ctgacagcat ggactt 636

<210> 163
<211> 676
<212> DNA
<213> Homo sapiens

<400> 163
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gtggatgcta caacatgac taatccccgg agacttgagg gacctccgag tagaacctgt 180
tacaactagt gttgcaacag gggactattc aattttgatg aatgtaagct ggttactccg 240
ggcagatgcc agcatccgct tgtgaaggc caccaagatt tgtgtgacgg gcaaaagcaa 300

cttcagtc tacagctgtg tgagggtgcaa ttacacagag gccttcaga ctcagaccag 360
 accctctggg ggtaaatgga catttccta catcggttc cctgtagagc tgaacacagt 420
 ctatttcatt ggggccata atattcctaa tgcaaatatg aatgaagatg gcccttccat 480
 gtctgtgaat ttacctcac caggctgcct agaccacata atgaaatata aaaaaaagtg 540
 tgtcaaggcc ggaagcctgt gggatccgaa catcactgct tgtaagaaga atgaggagac 600
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 cagcactatc attcgg 676

<210> 164
 <211> 722
 <212> DNA
 <213> Homo sapiens

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 tgtccagttt ttttggttct ttaaggaatt aatgttatc tgggtacaac tgcttacata 180
 catagcacat atagatgaca ttttacagg ccgtcttgtt agactgacat acatggagga 240
 tagtgccacc cgcctcaca gaacatcagg taagctcagg cacagagtgc ccaggaatct 300
 gtaaggcttc gccacgcac aagtcagggc tgccagtcac ctgggtgtc ttcactttat 360
 ttggtgcgt ctaatgacac ctccaactt ttgacccac ccctggactg ttgtgtaaac 420
 attgtatttc tccatctgta atgaaaaage taacacatct ctaactccag agacatttc 480
 cagaacatgc tgtctcagg cactagttag gcggtacat tattctcat ttgtatcca 540
 aatgttgcc atgtgaccac accaaaagct catcctgggc cactgagact ggtaattgaa 600
 tcagaatata gtgaaatatt catttcata tataaccagc catcttcat ctttgcttt 660
 ttccagcaga tccttgggc actcagaaca tccatttgc actgtgtatt ttttccctt 720
 ct 722

<210> 165
 <211> 335
 <212> DNA

<213> Homo sapiens

<400> 165

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attacaatgc tctcagtgtc tgccccaagt accacctcat ggaggatgcc actgctttct 180
gtgcagaact tctccatgtc aagtagcagg tgtagcagg aaaaagatca caagcctgcc 240
acgatggctg ctgctccttg tagccacccc atgagaagca agagacctta aaggcttctc 300
atcccaccaa ttacagggaa aaaacgtgtg atgat 335

<210> 166

<211> 680

<212> DNA

<213> Homo sapiens

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<223> a or g or c or t/u

<400> 166

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tcaacagtgt gtgcgatggt acctgtggca agagcgaggg cagtcccagt gagaactctc 240
aagacctctt ccccttgcc ttaaccttt tctgcagtga tctaagaagc cagattcatc 300
tgcacaaata cgtggtggtc tactttagag agattgatac aaaagacgat tacaatgctc 360
tcagtgtctg cccaagtac cacctcatga aggatgccac tgctttctgt gcagaacttc 420
tccatgtcaa gtagcaggtg tcagcaggaa aaagatcaca agcctgccac gatggctgct 480
gtccttcta gccacccat gagaagcaag agaccttaaa ggcttctat cccaccaatt 540
acagggaataa aaacgtgtga tgatccctga agcttactat gcagcctaca nacagcctta 600
gtaataaaac atttatcca ataaaatttc aaattttgct taactatgtg cataaactac 660
gattgaaaac tctttacact 680

<210> 167
<211> 491
<212> DNA
<213> Homo sapiens

<400> 167
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gccatcgtgg caggcttctg atcttttcc tgctgacacc tgctgcttga catggagaag 180
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attgtaatcg tcttttctat caatctccct aaagtagacc accacgtatt tgtcagatg 300
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gttctactg ggactgccct cgtcttggc acaggtacca tcgcacacac tgttgacgtc 420
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tggaccatc t 491

<210> 168
<211> 533
<212> DNA
<213> Homo sapiens

<400> 168
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tgccaggtga aagcagggcc aggacttcca gatcttctga ctgtcccgtt tttattttta 360
ccattgagcc ttctaccaga actgaaatgg gcaaaagatg gctgataaca aattacactt 420
tacctgtgat gggtactcta tgctagtcc tgtttttaa aaaatagttc ttatgagtg 480
tcaagaaaag ctttcgcttg gattcataca cagttgacct tgaacaaca cag 533

<210> 169
<211> 218

<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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<222> (199)..(199)
<223> a or g or c or t/u

<400> 169
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ataaaatttt caaatattgc taactaatgt agcattaact aacgattgga aactacatnn 120
acaactcaa agctgtttta tacatagaaa tcaattacag cttaattga aaactataac 180
cattttgata atgcaacant aaagcatctt cagccaaa 218

<210> 170
<211> 703
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> (554)..(554)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (703)..(703)
<223> a or g or c or t/u

<400> 170
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cagtctattt cattggggcc cataatattc ctaatgcaaa tatgaatgaa gatggccctt 180
ccatgtctgt gaatttcacc tcaccaggct gcctagacca cataatgaaa tataaaaaaa 240
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 <212> DNA
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 <223> a or g or c or t/u

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 <223> a or g or c or t/u

<400> 171
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 aaggttcttg tggtttacc atctgaaata tgtttccatc acacaattg ttacttact 300
 gaatttctc aaaaccattg cagaagtgag gtcctccttg aaaagtggca gaaaaagaaa 360
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 acaaaagacg attacaatgc tctcagtgtc tgccccaagt accacctcat gaaggatgcc 660
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caagcctgcc acgatggctg ctgctccttg tagccacccc atgagaagca agagacctta 780
 aggttctat cccaccanta caggnaaaaa cgtgtgatga tcctgaagct tactatgcag 840
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<210> 172
 <211> 959
 <212> DNA
 <213> Homo sapiens

<400> 172
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 gacagtagaa gtgaactca caaccactcc cctgggaaac agatamatkg ctcttateca 720
 acacarmact atcatcgggt tttctcaggt gtttgagcca caccagaaga aacaaacgcg 780
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<210> 173
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<223> a or g or c or t/u

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<222> (35)..(35)
<223> a or g or c or t/u

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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taatattcta tgtttaatta atgaatacta actctaagaa cccctcactg attcactcaa 180

tagcatctta agtgaaaaac ctctattac atgcaaaaaa tcattgttt taagataaca 240

aaagtaggga ataacaagc tgaaccact ttactggac caaatgatct attatatgtg 300

taaccacttg tatgatttgg tatttgcata agacctccc tctacaaact agattcatat 360

cttgattctt gtacaggtgc ctttaacat gaacaacaaa ataccacaa acttgtctac 420

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ttttataaa tgagttatta taatggttta cttaaataaa avagaggggk tttgcggtg 600

gctcatgcct ccaatcccag cacttggca aggccaaggc aaaavgatcg ctcaagacca 660

ggctacgtca caaagcgaga cctccatctc tacaaaagat ttaaaaaatt agctgagtg 720

gatggtgtga gcctgtggc ccagctacta gggaggctga gatgggagga tcacttgagc 780

cctggaggtc aagggtgcag taaacggtga ttgtgccact gcactccatc ctgggtgaga 840
gcagaccctg tctaaaacaa acaaacgaaa aaacccccac agaatgacag aacataaaag 900
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kggayamagg mcccacacaaa ccagtaaytt tatwttttga aaaaggggty acctgtasma 1140
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<210> 174
<211> 899
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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<222> (485)..(485)
<223> a or g or c or t/u

<400> 174
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aggcagccag cctcccgggt tgcttttgtt gttatccaga gggaaaggga cgcctgtttg 180
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tggagtcagc tgcaccgtag caccitcact atccccagtc actggaatca cactgaagc 300
tcgcgtttgt ttcttctggt gtggctcaaa cacctgagaa aaccgatga tagtgctgtg 360
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tggctctgagt cttgaaggcc ttttgtgta ttgcacctta cacagctgtt agactgggaa 720
 gttgcttttg ccccgcacac aaatcttgtg ggccttcaac agcggatgct gccatttgcc 780
 ccgaagtcce cagctcaatt cattaataat tgaataggcc ccttgtggca accctagtgt 840
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<210> 175
 <211> 877
 <212> DNA
 <213> Homo sapiens

<400> 175
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 gaggcagcca gcctcccgcc ttgcttttgt tgttatccag agggaaaggg acgcctgttt 180
 gtgggcagag cacaactgtt cctttatgtc ggatgcagtc gctgccacaa gtaggaaat 240
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 ctgcgctttg tttctcttgg tgtggctcaa acacctgaga aaacccgatg atagtgtgt 360
 gttggataag agccatgtat ctgtttccca ggggagtggg tgtgaagttc acttctactg 420
 tctctcatt cttcttaca gcaagtatgt tcggatcca caggcttccg gccttgacac 480
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 tggctctgagt ctggaaggcc tctgtgtaat tgcacctcac acagctgtag gactgggagt 720
 tgcttttgcc cgtacacaaa tcttgttggc cttcaacaag cggatgtctg catctggcgg 780
 gggtaccag cttacattca tcaaaattga atagtccct tgttgcaaca ctagtttga 840
 aacaggttct actccggggg tccccctagt ctcccg 877

<210> 176
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 176
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 accacataat gaaatataaa aaaaagtgtg tcaaggccgg aagcctgtgg gatccgaaca 120
 tcaactgcttg taagaagaat gaggagacag tagaagtga cttcacaacc actcccctgg 180
 gaaacagata catggctctt atccaacaca gcactatcat cgggttttct cagggtgttg 240
 agccacacca gaagaacaa acgcgagctt cagtggatgat tccagtgact ggggatagtg 300
 aaggtgctac ggtgcaactg actccatatt ttctacttg tggcagcgac tgcacccgac 360
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<210> 177
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 177
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 gaccacataa tgaatataa aaaaaagtgt gtcaaggccg gaagcctgtg ggatccgaac 120
 atcaactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac cactcccctg 180
 ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc tcaggtgttt 240
 gagccacacc agaagaaca aacgcgagct tcagtggatga ttccagtgcac tgggatagtg 300
 gaaggtgcta cggcgagct gactccatat ttctactt gtggcagcga ctgcatccga 360
 cataaaggaa cagttgtgct ctgccacaaa acaggcgctc ttccctctg gataacaac 420

<210> 178
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 178
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 gaccacataa tgaatataa aaaaaagtgt gtcaaggccg gaagcctgtg ggatccgaac 120
 atcaactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac cactcccctg 180
 ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc tcaggtgttt 240
 gagccacacc agaagaaca aacgcgagct tcagtggatga ttccagtgcac tgggatagtg 300

gaagggtgcta cgggtgcagct gactccatat ttctctactt gtggcagcga ctgcatccga 360
cataaaggaa cagttgtgct ctgccacaaa acaggcgtcc ctttcctct ggataacaac 420
aaaagcaagc cgggaggctg gctgcctctc ctctgctgt ctctgctggt ggccacatgg 480
gtgctggtgg cagggatcta tctaattgtg aggcacgaaa ggatcaagaa gacttccttt 540
ttaccacca cactactgtc tccattaaa gatcttgtgg ttatccatc tgaatatattg 600
ttcattaca catattgta cctaactgaa attctttaa accattgcaa attgaggtca 660
ctcttgaaag ggcgtg 676

<210> 179
<211> 517
<212> DNA
<213> Homo sapiens

<400> 179
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gaaaaaaatg cagcatcaac ggcagcagca agcggaccac gcgaacgagg caaactatgc 180
aagaggcacc agacttcctc ttcttggtga aggaccaact tctcagctga atagctccaa 240
gcaaactgtc ctgtcttggc aagctgcaat cgatgctgct agacaggcca aggctgccca 300
aactatgagc acctctgcac cccacctgt aggatctctc tccaaagaa aacgtcagca 360
atacgccaag agcaaaaaac agggtaactc gtccaacagc cgacctgccc gcgccctttt 420
ctgtttatca ctcaataacc ccattccaag agcctgcatt agtatagtgg aatggaaaca 480
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<210> 180
<211> 860
<212> DNA
<213> Homo sapiens

<400> 180
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gcatccagcc tcccctgggg ttgggaagt tatgtccaca cagggtagcg tgcaagagat 120
tagttgcat gaacatgcct ctcaacagt acgggacagt catgtttaa gcaaccctgt 180

ttgctttggt tcgaacggct cttaatgata agaccgaagg gaacctggag caagctaag 240
 aagaacttcg ggctgtgata aagaaaattt ggaagaaaac cagcatgaaa ttacttgacc 300
 aagttgtccc tcagctggt gatgatgagg taaccgtggg gaagtctat gccactttcc 360
 tgatacagga ctactttagg aaattcaaga aacggaaaga acaaggactg gtgggaaagt 420
 accctgcgaa gaacaccaca attgccctac aggcgggatt aaggacactg catgacattg 480
 ggccagaaat ccggcgtgct atatcgtgtg atttgcaaga tgacgagcct gaggaacaa 540
 aacgagaaga agaagatgat gtgttcaaaa gaaatggtgc cctgcttga aaccatgtca 600
 atcatgttaa tagtgatagg agagattccc ttcagcagac caatagcacc accgtcccct 660
 gcattgtcca aaggccttca attccacctg caagtatac tgagaaaccg ctgtttcctc 720
 cagcaggaaa ttcggggtgt cataaccatc ataaccatta attccatagg aaagcaaggt 780
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<210> 181
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 181
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 caggaaacag caggccccgc cctctcacag aggatgggtg aggaggccag acctgccctg 180
 cccattgtc cagatgggca ctgctgtgga gtctgttct cccatgtacc agggcaccag 240
 gcccaccaa ctgaaggcat ggcggcgggg tgcaggggaa agttaaaggt gatgacgac 300
 atcacacctg tgcgttacc tcagccatcg gtctagcata tcagtcactg ggccaacat 360
 atccattttt aaacccttc ccacaaatac actgcgtcct ggttcctgtt tagctgttct 420
 gaaatacggg gtgtaagtaa gtcagaaccc agctaccagt gattattgag agggcaatgg 480
 gacctcataa ataag 495

<210> 182
<211> 557
<212> DNA
<213> Homo sapiens

<400> 182
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gttcaaatac aatacagtaa ttacaaaata tagaccatct cttacaaat acaaattata 120
gtatattaca agtcatgtac agtaaatcta taattttaa caaactagt tatctaagtt 180
tacctggttg cgagtgcatt attattccag ttacagttg cccttagcgt gacagtcaga 240
aaccgaccat cggagtgata ttctcttatg taaactggcg tcacatcaca gaaaacctta 300
tttatgaggt cccttgccc tcgcaataat cactggtagc tgggttctga ctacttaca 360
caccgtattt cagaacagct aaacaggaac caggacgcag tgtatttgtg ggaaagggtt 420
taaaaatgga tatgttgggc ccagtgactg atatgctaga ccgatggctg aggtaacgac 480
acaggtgtga tgatgctcat cacctttaac ttccctgc accccgccgc catgccttcc 540
agttgggtgg gcctggt 557

<210> 183
<211> 416
<212> DNA
<213> Homo sapiens

<400> 183
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cctcttggtt ctgtcacct gcgagatgct ggtaaaaatg tacagcttgg gcctccaagc 120
atactcttgt tctctttaca accggttga ttgcttcgtg gtgtgtggtg gaatcactga 180
gacgatcttg gtggaactgg aaatcatgtc tccctgggg atctctgtgt ttcggtgtgt 240
gcgcctctta agaattctca aagtgaccag gcactggact tcctgagca acttagtggc 300
atccttatta aactccatga agtccatgc ttcgtgttg ctctgcttt ttctcttcat 360
tatcatcttt tccttgcttg ggaatgcagct gtttggcggc aagttaatt ttgatg 416

<210> 184
<211> 401
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (365)..(365)

<223> a or g or c or t/u

<400> 184

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gcggacagtt ggtggaggca gtctgatat ccgaagcttg ggacgctatg caagggaccc 120

aaaatttggt tcagcaacaa aacacgaaat cgctgatgcc tgtgacctca ccatcgacga 180

gatggagagt gcagccagca ccctgcttaa tgggaacgtg cgtccccgag ccaacgggga 240

tgtgggcccc ctctcacacc ggcagactat gagctacagg actttggtec tgggcttaca 300

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<210> 185

<211> 186

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (11)..(11)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (172)..(172)

<223> a or g or c or t/u

<400> 185

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tagaaaaatt tctgtagtgt caagttcttt caaactaaa atttaaccc cagaggattt 120

tcgctgaata aatgagaatt ggctctattt ctctacttc tggatagccc gngtaaaaat 180

actaat 186

<210> 186

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (45)..(45)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (296)..(296)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (303)..(303)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (345)..(345)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (366)..(366)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (386)..(386)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (391)..(391)

<223> a or g or c or t/u

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<221> misc_feature

<222> (420)..(420)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (428)..(428)

<223> a or g or c or t/u

<400> 186

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agaaaaattt ctgtagtgc aagttcttc aaacttaaaa tttaacccc agaggattt 120

cgctgaataa atgagaattg gctctatttc ttctacttct ggatagcccg agtaaaaata 180
ctaataattt ctagatttta gtggggaact acaattatta ggacccatgg atattgctgc 240
agttcaaata caatacagta attacaaaat atagaccatc tctttacaaa tacaanttat 300
agnatattac aagtcagta cagtaaactc ataattttgg acaanctagt gtatctaagt 360
ttaccngggg tgcgagtgcc ttatnttcc ngtttacagt tgccttagc gtgacagtcn 420
ggaaccgncc ttc 433

<210> 187
<211> 331
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (61)..(61)
<223> a or g or c or t/u

<400> 187
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tgtgtcagca acaaaacacg aaatcgctga tgcctgtgac ctcaccatcg acgagatgga 180
gagtgcagcc agcaccctgc ttaatgggaa cgtgcgtccc cgagccaacg gggatgtggg 240
ccccctctca caccggcaga ctatgagcta caggactttg gtcctgggct acagcgacga 300
agagccagac cctgggaggg atgaggagga c 331

<210> 188
<211> 643
<212> DNA
<213> Homo sapiens

<400> 188
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gctatccaga agtagaagaa atagagcaaa ttctcattta ttcagcgaaa atcctctggg 120
gttaaaattt taagttgaaa gaacttgaca ctacagaaat tttctaaaa tatttgagtc 180
actataaacc tatcatcttt ccacaagata taccagatga ctattgcagt cttctcttgg 240
gcaagagttc catgatttga tactgtacct tggatccacc atgggtgcaa ctgtcttgg 300

ttgttgtga cttgaaccac cctctggtaa gtaagtgaat tacagagcag gtctagctgg 360
 ctgctctgcc ccttggttat ccatagttac ggttttctct gtggcccacc caggtgtttt 420
 tgcacgcctg gtgcagaaat gcacaggtgg atgagatata gctgctcttg tcctctgggg 480
 actggtggtg ctgcttaaga aataaggggt gctggggaca gaggagcaac gtggtgatct 540
 ataggattgg agtgcggggg tctgtacaaa tcgtattgtt gccttttaca aaactgtga 600
 ctgtatgttc tcttgaggg cttttgtatg caattgaatg agg 643

<210> 189
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 189
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 agtgtcaagt tctttcaaac ttaaaatttt aaccccgag gattttcgct gaataaatga 120
 gaattggctc tattttctct acttctggat agcccgagta aaaatactaa taatttctag 180
 attttagtgg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
 acagtaatta caaaatatag accatctctt tacaaataca aattatagta tattacaagt 300
 catgtacagt aaatctataa ttttaacaa acctgtgtat ctaagttac ctggttg 357

<210> 190
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 190
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 tggaaattgt taaatctca agcaacaatg ctgattaatt tctggtaaat aatcgttcta 120
 tagttctct tcatgaagcc tggtagggt ccaggaaaca gcttgatttg ggaagcctca 180
 gcagaaaaga aagcatctca gaggacacat aaaatgtctg gcaaccctc ttggcgcccc 240
 tcatccagca aagcttgtgt ggtcttgcca actgtcctca ggactctgct tcaagatga 300
 aagaggtgta gcttaccgcg tcaatacacc aagtacaaga ttagtacga aaaatgaccc 360
 aaagatgacg agactgacaa gatacaccca gggcaattcc aatcccatag catcattcat 420

<210> 191
<211> 465
<212> DNA
<213> Homo sapiens

<400> 191
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ctctgatcca ggcaaaaaca ctcaagggt tgtaaatgac tcttctctga cataaatcct 120
ttttattaa aatgcaaaat gttcttcaga ataaaactgt gtaataattt ttatacttgg 180
gagtgtcct tgcacagagc tgtcatttgc cagtgagagc ctccgacagg gcaggactg 240
tgccagggca gctctgaaat tatggatatt cttatcctcc tgggtccttc ggtgccaatg 300
gtaacctaata accagccgca gggagcgcca ttctcctaa agggctacac cactgtcaac 360
attatcctgg actctgtgtc tctctctgtt gggctctgtg gcatcacatc aggccaaaat 420
tgccagacca ggaccctaag tgtctgatag aggcgatgat ctttt 465

<210> 192
<211> 330
<212> DNA
<213> Homo sapiens

<400> 192
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caggcttaaa gcaaacatac taggaaatgg ggcagcctgt aagaatgcca gtttgaagt 120
actgactttg gaaaagatca tcgcctctat cagacactta gggctctggt ctggcaattt 180
tggcctgatg tgatgccaca agaccaaca gagagagaca cagagtccag gataatgttg 240
acagggggta gccctttagg agaaatggcg ctccctgcgg ctggtattag gttaccattg 300
gcaccgaagg aaccaggagg ataagaatat 330

<210> 193
<211> 502
<212> DNA
<213> Homo sapiens

<400> 193
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tactctgac caggcaaaaa cacttcaagg ttgtaaatg actcttctct gacataaatc 120
ctttttatt aaaatgcaaa atgttcttca gaataaaact gtgtaataat ttftatactt 180
gggagtgtc ctgtcacaga gctgtcattt gccagtgaga gcctccgacg gggcaggtag 240
tgtgccaggg cagctctgaa attatggata ttcttctct cctggttcct tcgggtccaa 300
tggtaaccta ataccagccg caggagcgc catttctct aaagggtac accactgtca 360
acattatctt ggactctgtg tctctctctg ttgggtcttg tggtatcaca tcaggccaaa 420
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ttacaaactg gcattcttac ag 502

<210> 194
<211> 410
<212> DNA
<213> Homo sapiens

<400> 194
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aagacattct tactctgac caggcaaaaa cacttcaagg ttgtaaatg actcttctct 120
gacataaatc ctttttatt aaaatgcaaa atgttcttca gaataaaact gtgtaataat 180
ttftatactt gggagtgtc ctgtcacaga gctgtcattt gccagtgaga gcctccgacg 240
gggcaggtag tgtgccaggg cagctctgaa attatggata ttcttctct cctggttcct 300
tcgggtccaa tggtaaccta ataccagccg caggagcgc catttctct aaagggtac 360
accactgtca acattatctt ggactctgtg tctctctctg ttgggtcttg 410

<210> 195
<211> 333
<212> DNA
<213> Homo sapiens

<400> 195
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actctgatcc aggcaaaaac acttcaaggt ttgtaatga ctcttctctg acataaatcc 120
tttttatta aaatgcaaaa tgttcttcag aataaaactg tgtaataatt ttftacttg 180
ggagtgtccc ttgcacagag ctgtcatttg ccagttagag cctccgacgg gcaggtagtg 240

tgccagggca gctctgaaat atggatattc ttacctctcg gttcttcgg tgcaaatggt 300

aacctaatac cagccgcagg gagcgccatt tct 333

<210> 196
<211> 282
<212> DNA
<213> Homo sapiens

<220>
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<222> (231)..(231)
<223> a or g or c or t/u

<400> 196
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actctgatcc aggcaaaaac acttcaaggt ttgtaaatga ctcttctctg acataaatcc 120
tttttatta aaatgcaaaa tgttcttcag aataaaaactg tgtaataatt ttatacttg 180
ggagtgcctc ttgcacagag ctgtcatttg ccagtgcagc cctccgacgg ngcaggtact 240
gtgccagggc agctctgaat tatggatatt ctatcctcc tg 282

<210> 197
<211> 400
<212> DNA
<213> Homo sapiens

<400> 197
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atactaggaa atgggtgcagc ctgtaagaat gccagtttgt aagtactgac ttggaaaag 120
atcatgcctc ctatcagaca cttagggctc tggctcggca attttggcct gatgtgatgc 180
cacaagaccc aacagagaga gacacagagt ccaggataat gttgacagtg gtgtagccct 240
ttaggagaaa tggcgctccc tgcggctggt attaggttac cattggcacc gaaggaacca 300
ggaggataag aatatccata atttcagagc tgccctggca cagtacctgc cccgtcgag 360
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<210> 198
<211> 482
<212> DNA

<213> Homo sapiens

<400> 198

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gaattggctc tatttctct acttctggat agcccgagta aaaatactaa taatttctag 180
attttagtgg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
acagtaatta caaaatatag accatctctt tacaataca aattatagga tattacaagg 300
catgtacagt aaatctataa tttaaaca actagtgtat ctaagtttac ctggtgcga 360
gtgcattatt attccagttt acagtgccc itagcgtgac agtcagaaac cgaccatcgg 420
agtgatattc tcttatgtaa actggcgta catcacagaa aaccttattt atgaggtccc 480
at 482

<210> 199

<211> 459

<212> DNA

<213> Homo sapiens

<400> 199

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ctgagcagag atggttctta gtgaggttct cgctgccagt tgacggtgaa atcatagctg 180
ccattfacat ttgtgagat tatgaaaaac ataagactaa agaaactaaa tgtgttattc 240
ctgtggacac aaaaatgtgt gttttcaga tggggagggg accaaaaagg aaaaacattt 300
catcttaaaa ctttctaag acaaaggaaa acaaaaaacc atgctcctac aacttcaaat 360
tttcttacc aaagaaaaat ttaatatctg atgagagggt gaaccaggct taaagcagac 420
atactaggga atgggtgcag cctgtaagaa tgccagttt 459

<210> 200

<211> 487

<212> DNA

<213> Homo sapiens

<400> 200

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 tttttatta aaatgcaaaa tgttcttcag aataaaactg tgtaataatt ttatacttg 180
 ggagtgtccc ttgcacagag ctgtcatttg ccagtgagag cctccgacgg ggcaggtact 240
 gtgccagggc agctctgaaa ttatggatat tcttatcctc ctgggtcctt cggtgccaat 300
 ggtaacctaa taccagccgc aggagcgcca ttctcctaa agggctacac cactgtcaac 360
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 <212> DNA
 <213> Homo sapiens

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 cctaataatt gtagttcccc actaaaatct agaaattatt agtattttta ctggggctat 180
 ccagaagtag aagaaataga gccaatctc atttattcag cgaaaatcct ctgggggttaa 240
 aattttaagt ttgaaagaac ttgacactac agaaattttt ctaaaatatt ttgagtcact 300
 ataaacctat catctttcca caagatatac cagatgacta ttgcagtct ttctttggg 360
 caagagttcc atgattttga tactgtacct ttggatccac catgggttgc aactgtcttt 420
 ggttttgttt gtttgacttg aacca 445

<210> 202
 <211> 313
 <212> DNA
 <213> Homo sapiens

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 gcagttcaaa tacaatacag taattacaaa atatagacca tctctttaca aatacaaatt 180

atagtatatt acaagtcattg tacagtaaat ctataatttt aaacaaacta gtgtatctaa 240
gtttacctgg ttgcgagtgc attattattc cagtttacag ttgcccttag cgtgacagtc 300
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<210> 203
<211> 413
<212> DNA
<213> Homo sapiens

<400> 203
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gagaattggc tctatttctt ctacttctgg atagcccag taaaaatact aataatttct 180
agattttagt ggggaactac aattattagg acccatggat attgctgcag ttcaaataca 240
atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300
gtcatgtaca gtaaatctat aattttaaac aaactagtgt atctaagttt acctggttgc 360
gagtgcatta ttattccagt ttacagttgc ccttagcgtg acagtcagaa acc 413

<210> 204
<211> 476
<212> DNA
<213> Homo sapiens

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gagaattggc tctatttctt ctacttctgg atagcccag taaaaatact aataatttct 180
agattttagt ggggaactac aattattagg acccatggat attgctgcag ttcaaataca 240
atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300
gtcatgtaca gtaaatctat aattttaaac aaactagtgt atctaagttt acctggttgc 360
gagtgcatta ttattccagt ttacagttgc ccttagcgtg acagtcagaa accgaccatc 420
ggagtgatat tctcttatgt aaactggcgt cacatcacag aaaaccttat ttattt 476

<210> 205
<211> 406
<212> DNA
<213> Homo sapiens

<400> 205
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tatcatcttt ccacaagata taccagatga ctattgcag tctttcttt gggcaagagt 180
tccatgattt tgatactgta cctttggatc caccatgggt tgcaactgtc ttgggtttg 240
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tgctctgccc ctggggtatc catagttacg gttttctctg tggcccaccc aggggttttt 360
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<210> 206
<211> 473
<212> DNA
<213> Homo sapiens

<400> 206
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cataaatcct tttttattaa aatgcaaaat gttcttcaga ataaaactgt gtaataatt 180
ttatactgg gagtgctctc tgcacagagc tgtcatttgc cagtgagagc ctccgacagg 240
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aggccaaaat tgccagacca ggaccctaag tgtctgatag aggcgatgat ctt 473

<210> 207
<211> 463
<212> DNA
<213> Homo sapiens

<400> 207
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aagaactga cactacagaa atttttctaa aatattttga gtcactataa acctatcatc 120
ttccacaag atataccaga tgactatttg cagtcttttc ttgggcaag agtccatga 180
tttgatact gtaccttgg atccaccatg ggttgcaact gtcttggtt ttgtttgtt 240
gacttgaacc accctctggt aagtaagtga attacagagc aggtccagct ggctgctctg 300
ccccctgggt atccatagtt acggttttct ctgtggccca cccagggtgt ttttgcac 360
gctggtgcag aaatgcacag gtggatgaga tatagctgct ctgtcctct ggggactggt 420
ggtgctgctt aagaaataag ggggtgctggg gacagaggag caa 463

<210> 208
<211> 140
<212> DNA
<213> Homo sapiens

<400> 208
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<211> 237
<212> DNA
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<223> a or g or c or t/u

<400> 209
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aatggtgca gcctgtaaga atgccagttt gtaagtactg actttggaaa agatcatcgc 120

ctctatcaga cacttagggc cctggctctgg caattttggc ctgatgtgat gccacaagac 180

ccaacagaga gagacacaga gtccaggnta atattgacag naggtggang cccccct 237

<210> 210

<211> 292

<212> DNA

<213> Homo sapiens

<400> 210

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tttttttt tttttttg aaataacaaa caccactttg ttatgaagac ctacaaacc 120

tcttctaag acattcttac tctgatccag gcaaaaacac ttcaaggttt ggaaatgact 180

cttctctgac ataaatcctt ttattataa atgcaaaagg ttcttcagaa taaaactgtg 240

taataatttt tatactggg agtgctcctt gcacagagct gtcattgcc ag 292

<210> 211

<211> 434

<212> DNA

<213> Homo sapiens

<400> 211

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atcatgcct ctatcagaca cttagggtcc tggctggca atttggcct gatgtgatgc 180

cacaagaccc aacagagaga gacacagagt ccaggataat gttgacagtg gtgtagccct 240

ttaggagaaa tggcgctccc tgcggctggt attaggttac cattggcacc gaagagacca 300

ggaggataag aatatccata atttcagagc tgccttgga cagtacctgc cccgtcgag 360

gctctcactg gcaaatgaca gctctgtgca aggagcactc ccaagtataa aaattattac 420

acagttttat tctg 434

<210> 212

<211> 451

<212> DNA

<213> Homo sapiens

<400> 212

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 tttttattaa aatgcaaaat gttcttcaga ataaaactgt gtaataattt ttatacttgg 180
 gagtgcctct tgcacagagc tgcatttgc cagtgagagc ctccgacggg gcaggtactg 240
 tgccagggca gctctgaaat tatggatatt ctatcctcc tgggtccttc ggtgccaatg 300
 gtaacctaat accagccgca gggagcgcca ttctcctaa agggctacac cactgtcaac 360
 attatcctgg actctgtgtc tctctctgtt gggctctgtg gcacacatc aggccaaaat 420
 tgccagacca ggaccctaag tgtctgatag a 451

<210> 213
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 213
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 tctttttta taaaatgca aatgttctt cagaataaaa ctgtgtaata atttttatac 180
 ttgggagtg tcttgcaca gagctgtcat ttgccagtga ggcctccga c 231

<210> 214
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 <212> DNA
 <213> Homo sapiens

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 cctttttat taaaatgcaa aatgttcttc agaataaaac tgtgtaataa tttttatact 180
 tgggagtgct ccttgcacag agctgtcatt tgccagtga agcctccgaa ggggcaggta 240
 ctgtgccagg gcagctctga aattatggat attcttatcc tcttggttcc ttcggtgcca 300
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 acattatcct ggactctgtg tctctctctg ttgggtcttg tggcatcaca tcaggccaaa 420

attgccagac caggacccta agtgtctgat agaggcgatg atctttcca aagtcagtac 480

tta 483

<210> 215

<211> 507

<212> DNA

<213> Homo sapiens

<400> 215

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cacactgaga ggacatcaga gtccaaacac atgcagagaa gctgtcaggg agcagctagg 180

agacacgcag agttgcctca cacgtggcag caggagaagg tgcaacacgg atccgactgc 240

ttaccacta aggacaccaa gaaccaggtt aaggacgaaa aatgagccaa ggatgatcag 300

actaacaaaa tacacccatg gccattccca tcctatcgca tcatttacc agtagagcac 360

gtctgtccag cctccatgg tgatgcactg aaacacagta agcatggcaa aggcaaagtt 420

atcaaagttg gtgatgcctc cgttcgggcc aaccagcca ctctacatt ccgtgccatt 480

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<210> 216

<211> 443

<212> DNA

<213> Homo sapiens

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tcctaagaca ttctactct gatccaggca aaaacacttc aaggtttgta aatgactctt 180

tcctgacata aatccttttt tattaaaatg caaaatgttc ttcagaataa aactgtgtaa 240

taatttttat acttgggagt gctccttgca cagagctgtc atttgccagt gagagcctcc 300

gacggggcag gtactgtgcc agggcagctc tgaaattatg gatattctta tcctcctggt 360

tcctcgtgtg ccaatggtta cctaatacca gccgcaggga gcgccatttc tcctaaaggg 420

ctacaccact gtcaacatta tcc 443

<210> 217
<211> 305
<212> DNA
<213> Homo sapiens

<400> 217
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gactttgga aagatcatcg cctctatcag acacttaggg tcctggtctg gcaattttgg 180

cctgatgtga tgccacaaga cccaacagag agagacacag agtccaggat aatgttgaca 240

gtggtgtagc ctttaggag aaatggcgct ccctgcggct ggtattaggt taccattggc 300

accga 305

<210> 218
<211> 376
<212> DNA
<213> Homo sapiens

<400> 218
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ctttttatt aaaatgcaaa atgttcttca gaataaaact gtgtaataat tttataactt 180

gggagtgtc cttgcacaga gctgtcattt gccagtgaga gcctccgacg gggcaggtac 240

tgtgccaggg cagctctgaa attatggata ttcttctct cctggttcct tcggtgcaa 300

tggtaaccta ataccagccg cagggagegc catttctct aaagggctac accactgtca 360

acattatcct ggactc 376

<210> 219
<211> 544
<212> DNA
<213> Homo sapiens

<400> 219
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ccaccaatc cagctcattt tgctatcggt ttataacaat taatctgcat tatattgga 120

tccagacaaa taaagcaatt ataatgtat ctcaatttac aacagacaaa aaaagggcac 180

gctatgaaa ttgtttaa ctcaagcaac aatgctgatt aatttctggt caataatcgt 240
tctatagttc tcttcatga agcctggtga ggttccagga aacagcttga tttgggaagc 300
ctcagcagaa aagaaagcat ctcagaggac acataaaatg tctggcaacc cctcttggcg 360
gccctcatcc agcaaagctt gtgtggtctt ggcaactgtc ctcaggactc tgctttcaag 420
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tcat 544

<210> 220
<211> 308
<212> DNA
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<400> 220
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tatttttact cgggctatcc agaagtagaa gaaatagagc caatttcat ttattcagcg 180
aaaatcctct ggggttaaaa tttaagttt gaaagaactt gacactacag aaatttttct 240
aaaatatttt gagtcactat aaacctatca tctttccaca agaaaaaaaa acaaaaaaaaa 300
agtcgacg 308

<210> 221
<211> 939
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

<220>
<221> misc_feature
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<223> a or g or c or t/u

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<222> (687)..(687)
<223> a or g or c or t/u

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<223> a or g or c or t/u

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<222> (795)..(795)
<223> a or g or c or t/u

<400> 221
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tggctttggt agaacaagaa actaagctct gatttggctt taaatgagag tgctaaattt 240
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<210> 222
<211> 966
<212> DNA
<213> Homo sapiens

<400> 222
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 tttgaacact gaactttctt gttgcagagt taacagctgt tgggggtagc tgacagctgg 360
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 ttaacaagtg agtggtaacc tctctgccgc tggctcacag ctactgttgc catagaaatg 480
 gctgtcggga tcagtggaaa cgaggtaagt gaaagttttc gctgacccct gtttccatca 540
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 gccctcctgg atgctccttt tgcagatgga gacctggggg ctgagttgac ttctctggcc 780
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 tgtttgaggg tattaatggg tccccgggcg ggctgatcga atcctgggga ctccacgtcc 900
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 agcggg 966

<210> 223
 <211> 692
 <212> DNA
 <213> Homo sapiens

<400> 223
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 cgctgaataa atgagaattg gctctatttc ttctacttct ggatagcccg agtaaaaaata 180
 ctaataattt ctgattttta gtggggaact acaattatta ggacccatgg atattgctgc 240
 agttcaaata caatacagta attacaaaat atagaccatc tctttacaaa tacaattat 300

agtatattac aagtcattgta cagtaaatct ataattttaa acaaactagt gtatctaagt 360
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 aaaccgacca tcggagtgat attctcttat gtaaactggc gtcacatcac agaaaacctt 480
 atttatgagg tccattgcc ctgcataaa tcaactgtag ctgggtctg acttacttac 540
 acaccgtatt tcagaacagc taaacaggaa ccaggacgca gtgtatttgg gggaaagggt 600
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 cacaggtgtg atgatcgta tcacctttaa ct 692

<210> 224
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 224
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 acaataaag caattataaa tgtatctcac tttagaacag acaaaaaaag ggcattgctat 180
 ggaaattgtt taaatctcaa gcaacaatgc tgattaattt ctggtcaata atcggtctat 240
 agttctcctt catgaagcct ggtgaggttc caggaaacag cttgatttgg gaagcctcag 300
 cagaaaagaa agcatctcag aggacacata aaatgtctgg caaccctctt tggcggccct 360
 catccagcaa agcttgtgtg gtcttggcaa ctgtcctcag gactctgctt tcaagatgaa 420
 agaggtgtag cttaccgct caatacacca agtacaagat ttagtacgaa aaatgacca 480
 aagatgacga gactgacaaa atacaccag ggcaattcaa atcccatagc atcattcatc 540
 tgcaagaaat aagatggctc cataggagtg ggtaataag aggatttaat aagga 595

<210> 225
 <211> 999
 <212> DNA
 <213> Homo sapiens

<400> 225
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 aaagatttgt tcacagtgg atgtccctt ttctgaacca tgaagtaata ttgtaatgg 120

agttgaatgc tgacggtag ggtgccgaa agattcaggg tccttcgta ccctcacatg 180
 gcttggttt ggtagaacaa gaaactaagc tctgatttgg cttaaata gaagtgtctaa 240
 ttctctttt ctaataaaga acctagctaa acatttat atactttga aactgaact 300
 ttctgtcag cagagttaac agctgtagg ggtagctgac acggctggat cctggtgctg 360
 ttggtacat ggtacctgaa gtgcacaggc tggtagccac acctgacatt aacaactga 420
 gtgtaacct ctctgccgt ggctcacagc tactgttcc atcagaaatg gctgtcgggc 480
 tcacgtgaa acgaggaag tgaaagtacg ctatgcctt gttccatcac agctgacgct 540
 ctgtttcca tggcaacacc cagcacggac aagccggcac gccgcataga caaccacaac 600
 cagctacagc tctccacaag tcagctcgtg gctatccatc atgtccctga acaagcccac 660
 accaccccc cccaagcagc acagcaacga gcaccaccg gacgaacaa aggacggacc 720
 cccctgccc aacctctgc ccatccgca cagaccgcc aagcaaacac gacaacctaa 780
 caaagcagag ggacagacc atagcggcg ctaccggaag cgtacaccac ttccaacag 840
 taaggccaaa agagcgagc ggagcacgtg aacggataag aaaacgagag aaggcacggc 900
 cgcatggcaa acacaccagc aagcagcaga cagcacgtgg gcacgacaca ggacagaaag 960
 cagccacct cagaggggac caacgaagag tcgcacgac 999

<210> 226
 <211> 695
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (695)..(695)
 <223> a or g or c or t/u

<400> 226
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 gcgagggcaa tgggacctca taaataaggt ttctgtgat gtgacgccag ttacataag 180
 agaatatcac tccggtggtc ggtttctgac tgtcacgcta agggcaactg taaactggaa 240
 taataatgca ctgcacaac ggtaaaccta gatacactag ttgtttaaa attatagatt 300

tactgtacat gacttgaat atactataat ttgtatttgt aaagagatgg tctatatatt 360
gtaattactg tattgtattt gaactgcagc aatatccatg ggtcctaata attgtagttc 420
cccactaaaa tctagaaatt attagtattt ttactcgggc tatccagaag tagaagaaat 480
agagccaatt ctcatattt cagcgaaaa cctctggggg taaaatttta agtttgaaag 540
aacttgacac tacagaaatt ttctaaaaat attttgagtc actataaacc tatcatcttt 600
ccacaagata taccagatga ctattgcag tcttttcttt gggcaagagt tccatgattt 660
tgatactgta cctttggatc caccatgggt tgcan 695

<210> 227
<211> 870
<212> DNA
<213> Homo sapiens

<400> 227
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tttgattgg ggtgggctaa tcaggagtc ggggctctct gcgtgatgac agttctatgg 120
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tgcaattggc aaagacactt acgatgctga gaagtacaca aggtgaaact gctccagttt 240
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agttgacggt gaaatcatag ctgccattt cattttgtga gattatgaaa aacataagac 540
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accatgctct acaactcaa atttttctta caaagaaaaa ttaatatc gatgagcagg 720
ttgaaccagg cttaaagcag acatactagg aaatgggtga gcctgtaaga atgccagttt 780
gtaagtactg actttggaaa agatcatcgc tctatcagac acttagggtc ctggtctggc 840
cattttggcc tgatgtgatg caaaagacc 870

<210> 228
<211> 368
<212> DNA
<213> Homo sapiens

<400> 228
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gtagtgtcaa gtctttcaa acttaaaatt ttaaccccag aggattttcg ctgaataaat 120
gagaattggc tctatttctt ctacttctgg atagcccag taaaataact aataatttct 180
agattttagt ggggaactac aattattagg acccatggat attgctgcag ttcaaataca 240
atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300
gtcatgtaca gtaaatctat tttaacaaa ctagtgtatc taagtttacc tggttgcgag 360
tgcattat 368

<210> 229
<211> 412
<212> DNA
<213> Homo sapiens

<400> 229
cttacaaga aaaatttaatt attcgatgag aggttgaacc aggcttaaag cagacatact 60
aggaaatggg gcagcctgta agaatgccag ttgtaagta ctgactttgg aaaagatcat 120
cgctctatc agacacttag ggtcctggtc tggcaatttt ggcctgatgt gatgccacaa 180
gaccaacag agagagacac agagtcagg ataattgtga cagtgggtga gcccttagg 240
agaaatggcg ctccctgcgg ctggtattag gttaccattg gcaccgaaga gaccaggagg 300
ataagaatat ccataatttc agagctgccc tggcacagta cctgccccgt cggaggctct 360
cactggcaaa tgacagctct gtgcaaggag cactccaag tataaaaatt at 412

<210> 230
<211> 610
<212> DNA
<213> Homo sapiens

<400> 230
ccgcgtccgg tcagatggta caagttgtc tctataatta agactttcc accatcacia 60
actttaaaca caaagtctaa aatcttgggc agcatagaaa ataggttcta gctaagcagg 120

agttttgtcc tctaccaaga cctttcctga aaatcactta tcaagacagt ttctgtgaag 180
 aaaaagccat atcccagctg attttccttc ctggggccaa aatctgctat tatteggcct 240
 gaaagccttg atgactctgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
 gtatggatgc ttgtgtgtgt gtatggggaa tatgtgatta atgtgtgttg gctgctgttg 360
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 tagaatgctg tctctaagt gaccctctct ccttattaaa tctcttatt aaccactcc 480
 tatgagacca tcttatttct tgcagatgaa tgatgctatg ggatttgaat tgccctgggt 540
 gtattttgtc agtcctgtca tctttgggtc atttttcgta ctaaatcttg tacttgggtg 600
 attgagcggg 610

<210> 231
 <211> 236
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (195)..(195)
 <223> a or g or c or t/u

<400> 231
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 ttgcacagag ctgtcatttg ccagtgtgag cctcgacagg caggtactgt gccagggcag 120
 ctctgaaatt atggatatcc ttatcctctt gggtccttct gtgtcaatg gtaacctaat 180
 accagccgca ggacncgcca ttctcctaa agggctacac cactgtcaac attatc 236

<210> 232
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 232
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 ttttcaaaa tattttgagt cactataaac ctatcatctt tccacaagat ataccagatg 120
 actatttgca gtcttttctt tgggcaagag ttccatgatt ttgatactgt acctttggat 180
 ccacatggg ttgcaactgt ctttggtttt gtttgtttga ctgaaccac cctctggtaa 240

gtaagtaagt gaattacaga gcaggtccag ctggctgctc tgccccttgg gtatccatag 300
 ttacggtttt ctctgtggcc caccagggt gtttttgca tcgctggtgc agaaatgcat 360
 aggtggatga gatatagctg ctctgtcct ctggggactg gtggtgctgc ttaagaaata 420
 aggggtg 427

<210> 233
 <211> 838
 <212> DNA
 <213> Homo sapiens

<400> 233
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 gagcggggcac agtggctcac gcctataatc ccagcacttt cggaggccga ggcagctgga 120
 ccaccgaga tcaggagttt gagaccagcc tgactaaggc agtgaaacct tgtctctact 180
 aaaaatacaa aaattagcca ggcatggtgg cgcattgctg taatcccagc tacttgggag 240
 gctgaggcag gagaatcact tgaaccaggg aggtggagat tgcagtgagc caagactgca 300
 ccattgcatt ccagcctggg tgacaagagc aaaactccat ctcaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa agacttttct ctattcaac actttaccag catctactga cagaaatgg 420
 acaattgaat ttctccaat atatatacct ctgatatgct tgctttgtaa aagagtagtg 480
 taattgctta caacattgaa aaggttgta ttggggctct ggggtagcca ggatcgcgc 540
 atgatttgc accatattca gaataaaact gtactgcaat agtgagttaa ttccatatct 600
 tggccaacag agaatttttg gccagtggct actaaggcac acggaagtcc agtctaaaag 660
 ggacagggga ggactcttg tagatagttc ttatgattaa aaaataactt cctatgtgtt 720
 gtagtgatga ttaagctga cagaatgcta aagacacccc ttatgattac ctggtagcaa 780
 agtaccttcc ccacatttaa cctggatttg ccttttggg ttgaaagag gctaaata 838

<210> 234
 <211> 904
 <212> DNA
 <213> Homo sapiens

<400> 234
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aagaggctaa tacgtgaaag atttgttcac agttggatgt cccctttct gaacatgaa 120
gtaatatattg tgatatggag ttcgaatggc tgaggcttag gtgtgccgag aaagattcag 180
ggctcctcgg taccctcaca tggcttggct ttggtagaac aagaaactaa gctctgattt 240
ggctttaaat gagagtgcga aatttcttt ttctaataaa gaacctagct aaacatttat 300
atatactttt gaacactgaa cttcttgtt gcagagttaa cagctgttgg gggtagctga 360
cagctggatc ctggtgctgt tggtagcatg gtacctgaag tgcacaggct ggtagccaca 420
cctgacatta acaagtgagt ggtaacctct ctgccgctgg ctcacagcta ctgtttccat 480
agaaatggct gtcgggatca gtggaaacga ggtaagtga agttttcgt gatccttgtt 540
tccatcaagc tgacgtctgt tccctggca acagcagtgg acagcagcca ggcgctagca 600
acagattcag tagagctctc acttgcagc tgtggctatc atctgttct gaccaagtc 660
ttttttttt tttaataat gtacagaaag acctctgagg acccaggagg cacctctggc 720
cacatgtgcc ctcttgatg ctcttttgc agatggagag ctgtgtgctg agttgacttc 780
tctgtccga gttccccctc cacctgtgct ctgggttgtt gatgtgccag ttaaacagg 840
gaggctgctt cagggtatta gtgttgccaa ggggaggctg ttgaaatctg gttgatccca 900
aatc 904

<210> 235
<211> 935
<212> DNA
<213> Homo sapiens

<400> 235
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agatttgct acagttggat gtccccctt ctgaacctg aagtaattt gtgaatggag 120
ttgaatgctg aggttagggt gccgaaaga ttcagggtcc ttcggtacc tcacatggct 180
tggctttgtt agaacaagaa actaagctct gatttggctt taaatgagag tgctaaattt 240
ccttttcta ataaagaacc tagctaaaca ttatatata ctttgaaca ctgaacttc 300
ttgtgcaga gttacagct gttgggggta gctgacagct ggatcctggt gctgttgta 360
ccatggtacc tgaagtgcac aggtcgttag ccacacctga cattaacaag tgagtggtaa 420

cctctctgcc gctggctcac agctactgtt tccatagaaa tggctgtcgg gatcagtgga 480
aacgaggtaa gtgaaagttt tcgctgatcc ttgtttccat caagctgacg tctgtttccc 540
tggcaacagc agtggacagc agccaggcgc tagcaacaga ttcagtagag ctctcacttg 600
tcagctgtgg ctatcatctg ttctgacca agttcttttt tttttttta ataattgaca 660
gaaagacctc tgaggaccca gggagcacct ctggccacat gtgccctcct gaatgctcgt 720
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tgccagggaa aggctgttga attctggttg atcccaaatc cctaggggga agagaaatcc 900
cttacgagtg gttttcatg gccaggaacc ctata 935

<210> 236
<211> 382
<212> DNA
<213> Homo sapiens

<400> 236
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ttttctaaaa tattttgagt cactataaac ctatcatctt tccacaagat ataccagatg 120
actatttgca gtcttttctt tgggcaagag ttccatgatt ttgatactgt acctttggat 180
ccaccatggg ttgcaactgt ctttggtttt gttgtttga ctgaaccac cctctggtaa 240
gtaagtaagt gaattacaga gcaggtccag ctggctgctc tgccccttgg gtatccatag 300
ttacgggttt ctctgtggcc caccagggtt gtttttgca tcgctggtgc agaaatgcat 360
aggtggatga gatatagctg ct 382

<210> 237
<211> 461
<212> DNA
<213> Homo sapiens

<400> 237
gtatatcttg tggaaagatg ataggttat agtgactcaa aatattttag aaaaatttct 60
gtagtgtcaa gttctttcaa acttaaaatt ttaaccccag aggattttcg ctgaataaat 120
gagaattggc tctatttctt ctacttctgg atagcccag taaaaatact aataatttct 180

agattttagt ggggaactac aattattagg acctatggat atagctgcag ttcaaataca 240
 atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300
 gtcattgtaca gtaaatctat aattttaaac aaactagtgt atctaagttt accaggttgc 360
 gagtgcatta ttattccagt ttacagttgc ccttagcgtg acagtcagaa accgaccatc 420
 ggagtgatat tctcttatgt aaacaggcgt cacatcacag a 461

<210> 238
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 238
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 ctgtagtgtc aagttctttc aaacttaaaa tttaacccc agaggatttt cgtgaataa 120
 atgagaattg gctctatttc ttctacttct ggatagcccg agtaaaaaata ctaataattt 180
 ctagatttta gtggggaact acaattatta ggacctatgg atattgctgc agttcaaata 240
 caatacagta attacaaaat atagaccatc tctttacaaa tacaaattat agtatattac 300
 aagtcattga cagtaaatct ataattttaa acaaactagt gtatctaagt ttacctggtt 360
 gcgagtgcatt tattattcca gtttacagtt gcccttagcg tgacagtcag aaaccgacca 420
 tcggagtgat attctcttat gtaaactggc gtcacatcac agaaaacctt atttatgagg 480
 tccattgcc ctgcataaa tcaactgtag ctgggttctg acttacttac acaccgtatt 540
 tcagaacagc taaacag 557

<210> 239
 <211> 481
 <212> DNA
 <213> Homo sapiens

<400> 239
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 ttctgtagtg tcaagttctt tcaaaactaa aattttaacc ccagaggatt ttcgctgaat 120
 aaatgagaat tggctctatt tcttctactt ctggatagcc cgagtaaaaa tactaataat 180
 ttctagattt tagtggggaa ctacaattat taggacccat ggatattgct gcagttcaaa 240

tacaatacag taattacaaa atagaccca tctctttaca aatacaaatt atagtatatt 300
 acaagtcag tacagtaaat ctataatfff aaacaaacta gtgtatctaa gtttacctgg 360
 ttgcgagtg attattatc cagtttacag ttgcccttag cgtgacagtc agaaaccgac 420
 catcggagtg atattctctt atgtaaactg gcgtcacatc acagaaaacc ttatttatga 480
 g 481

<210> 240
 <211> 466
 <212> DNA
 <213> Homo sapiens

<400> 240
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 agtgtcaagt tctttcaaac ttaaaatfff aaccccagag gattttcgct gaataaatga 120
 gaattggctc tatttctctt acttctggat agcccagta aaaatactaa taatttctag 180
 attttagtgg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
 acagtaatta caaaatatag accatctctt tacaataca aattatagta tattacaagt 300
 catgtacagt aaatctataa ttttaacaa actagtgtat ctaagtttac ctggttgcga 360
 gtgcattatt attccagttt acagttgccc ttagcgtgac agtcagaaac cgaccatcgg 420
 agtgatattc tcttatgtaa actggcgtca catcacagaa aacctt 466

<210> 241
 <211> 353
 <212> DNA
 <213> Homo sapiens

<400> 241
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 tattctcttt ttctgacaa ctctccacc tagatgtttg ggaaagttgc catgagagat 180
 aacaaccaga tcaataggaa caataacttc cagacgtttc cccaggcggt gctgctgctc 240
 ttcaggtgac tgcaactggc ttggcggtg ctctgggca ggggggtccg ctaggcgtgg 300
 gtccagaggg acggaggaca caggttatta aagcagtggt cctttctcag ttg 353

<210> 242
<211> 526
<212> DNA
<213> Homo sapiens

<400> 242
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ctctgatcca ggcaaaaaca ctcaagggtt tgtaaatgac tctttcctga cataaatcct 120
tttttatta aaatgcaaaa tgttcttcag aataaaactg tgtaataatt ttatacttg 180
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tgccagggc agctctgaaa ttatggatat tcttaccctc ctgggtcctt cgggtccaat 300
ggtaacctaa taccagccgc agggagcgc atttctccta aagggttaca ccactgtcaa 360
cattatcctg gactctgtgt ctctctctgt tgggtcttgt ggcacacat caggccaaaa 420
ttgccagacc aggaccctaa gtgtctgata gaggcgatga tcttttcaa agtcagtact 480
tacaaactgg cattcttaca ggctgcacca ttcttagta tgtctg 526

<210> 243
<211> 750
<212> DNA
<213> Homo sapiens

<400> 243
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aactgtcca gtttttctca tagcagggtc agcaggaaag caagtgggtgc ccttgggtccc 120
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gaaaaacata agactaaaga aactaatgt gttattctg tggacacaaa aatgtgtgtt 420
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attcgatgag aggttgaacc aggttaaag cagacatact aggaaatgt gcagcctgta 600

agaatgccag ttgtaagta ctgactttgg aaaagatcat cgcctctatc agacacttag 660
 ggtcctgggc tggcaatfff ggcctgatgt gatgccacaa gaccaacag agagagacac 720
 agagtccagg ataatgtga cagtgggtga 750

<210> 244
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 244
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 tgggggttaa attttaagtt tgaaagaact tgacactaca gaaattttc taaatattt 120
 tgagtcacta taaacctatc atctttccac aagatatacc agatgactat ttgcagtctt 180
 ttctttgggc aagagttcca tgattttgat actgtacctt tggatccacc atgggttgca 240
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 agcaggcca gctggctgct ctgccccttg ggtatccata gttacggttt tctctgtggc 360
 ccaccagggg tgtttttgc atcgctggtg cagaaatgca cagggtgatg agatatagct 420
 gctcttgtec tc 432

<210> 245
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 245
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 gaattggctc tattttctct acttctggat agcccgagta aaaatactaa taatttctag 180
 attttagtg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
 acagtaatta caaaatatag accatctctt taaaaataca aattatagta tattacaagt 300
 catgtacagt aaatctataa ttttaacaa actagtgtat ctaagttac ctggttgcca 360
 gtgcattatt attccagttt acagttgccc ttagcgtgac agtcagaaac cgaccatcgg 420
 agtgatattc tcttatgtaa actggcgta catcacagaa aaccttattt atgaggtccc 480

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502

<210> 246
<211> 356
<212> DNA
<213> Homo sapiens

<400> 246
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ttaagaagag gtttgaagg tcttcataac aaagtgggtg ttgtattta caaaaaaaaa 180

aaaaaaaaat taacagggtg tctgtatact attaaaaatt ttggaccaa attgctacct 240

atcatctatc ttttgattg cagggaatcc ctgccaaggt aacttgacag tcggccta 300

tctgttgaca gaaatgaag ccttgacggt tctaattatc caaagtggg tttcatcag 360

gacgtacagt cagagtgtga gtgcattcta atgaaaactt cttcagccct cattcaattg 420

catacaaaag cctcacaaga gaacatacag tacagcagtt ttgtaaaagg caacaatag 480

attgtacag accccgacac tccaatccta tagatcacca cgttgctcct ctgtccccag 540

cacccttat ttcttaagca gcaccaccag tccccagagg acaagagcag ctatatctca 600

tccacctgtg catttctgca ccagcgatgc anaaaacacc ctggggtggg ccacagagaa 660

aaccgtaact atggataccc aaggggc 687

<210> 274
<211> 573
<212> DNA
<213> Homo sapiens

<400> 274
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ctctgatcca ggcaaaaaca ctcaagggt tgtaaatgac tcttctga cataaatcct 120

ttttattaa aatgcaaat gtcttcaga ataaaactgt gtaataatt ttatactgg 180

gagtgtcct tgcacagagc tgcatttgc cagtgagagc ctccgacggg gcaggtagt 240

tgccagggca gctctgaat tatgatatt cttatctcc tgggtcctc ggtgccaatg 300

gtaacctaat accagccgca gggagcgcca ttctcctaa agggctacac cactgtcaac 360

attatcctgg actctgtgtc tctctctgtt gggctctgtg gcatcacatc aggccaaaat 420
 tgccagacca ggaccctaag tgtctgatag aggcgatgat cttttccaaa gtcagtactt 480
 acaaactggc attcttacag gctgcaccat ttccatgat gtctgcttta agcctgggtc 540
 aacctctcat cgaatattaa atttttcttt gta 573

<210> 275
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 275
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 aaaatttctg taggggtcaag ttctttcaaa cttaaaattt taaccccgaga ggattttcgc 120
 tgaataaatg aaaattggct ctatttcttc aacttcggga tagcccgagt aaaaatacta 180
 ataatttcta aattttaggg gggaactaca attattagga cccatggata ttgctgcagt 240
 tcaaatataa tacagtaatt acaaaatata gaccatctct ttacaatac aaattatagt 300
 atattacaag tcatgtacag taaatctata attttaaaca aactagtgt tctaagtta 360
 cctggttgcg agtgcattat tattccagtt tacagttgcc cttagcgtga cagtcagaaa 420
 ccgaccatcg gagtgatatt ctcttatgta aac 453

<210> 276
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (311)..(311)
 <223> a or g or c or t/u

<400> 276
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 gctaatacgt gaaagatttg ttacagttg gatgtccct tttctgaacc atgaagtaat 120
 attgtgaatg gaggttgaat ctgaggtag ggtgccgga agattcaggg tccttcggt 180
 ccctcacatg gcttggtttt ggtagaaca gaaactaagc tctgatttgg cttaaatga 240
 gagggtctaaa ttctctttt ctaataaaga acctagctaa acatttatat atactttga 300

acactgaact ncttgttg agagttaaca gctgtgggg gtagctgaca gctggatcct 360

gggtgctgttg gtaccatggg acctgaagtg cacaggctgg tagccacacc tgaca 415

<210> 277
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(43)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (573)..(573)
<223> a or g or c or t/u

<400> 277
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ctttggaaaa gatcatcgcc tctatcagac acttaggggc ctggtctggc aattttggcc 180

tgatgtgatg ccacaagacc caacagagag agacacagag tccaggataa tgttgacagt 240

gggtgtagccc tttaggagaa atggcgctcc ctgcggctgg tattaggta ccattggcac 300

cgaaggaacc aggaggataa gaatatccat aatttcagag ctgccctggc acagtacctg 360

ccccgtcgga ggctctcact ggcaaatgac agctctgtgc aaggagcact cccaagtata 420

aaaattatta cacagtttta ttctgaagaa cattttgcat ttaataaaa aaggatttat 480

gtcaggaaag agtcatttac aaacctgaa gtgttttgc ctggatcaga gtaagaatgt 540

cttaagaaga ggtttgaag gtcttcataa canagtgggt ttgttattt acaaaaaaaaa 600

aaaaaaaaa aataaaaaaaaa aaaaaaaaaa cctcgtgccg aattct 646

<210> 278
<211> 668
<212> DNA
<213> Homo sapiens

<400> 278
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cttcttaaga cattcttact ctgatccagg caaaaacact tcaaggtttg taaatgactc 120
 ttctctgaca taaatccctt ttattataaa tgcaaaatgt tcttcagaat aaaactgtgt 180
 aataattttt atacttggga gtgctccttg cacagagctg tcatttgcca gtgagagcct 240
 ccgacagggc aggtactgtg ccagggcagc tctgaaatta tggatattct tctcctctg 300
 gttccttcgg tgccaatggt aacctaatac cagccgcagg gagcgccatt tctcctaaag 360
 ggctacacca ctgtcaacat tctcctggac tctgtgtctc tctctgttgg gtcttgtggc 420
 atcacatcag gccaaaattg ccagaccagg accctaagtg tctgatagag gcgatgatct 480
 ttccaaagt cagtacttac aaactggcat tcttacaggc tgcaccattt cctagtatgt 540
 ctgctttaag cctgggtcaa cctctcatcg aatattaaat ttttctttgt aagaaaaatt 600
 tgaagttga gagcatggtt tttgttttc cttgtctta ggaaagttt aagatgaaat 660
 gtttttcc 668

<210> 279
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 279
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 gtgcccttg tcccatctca cacaggtgag actgcaccga gaggtaacgt ggccctcaca 120
 gccaccacg cctggccttc gcccaattct gaaacttcgt aggatagagc tggaaagtgc 180
 cacatggtga agcgagatcc agctgtctgg gtggatgtcg gagtccatag gctgagcaga 240
 gatggttctt agtgagggtc tcgtgccag ttgacggtga aatcatagct gccatttaca 300
 ttttgtgaga ttatgaaaaa cataagacta aagaaactaa atgtgttatt cctgtggaca 360
 caaaaatgtg tgttttctag atggggaggg gaccaaaaag gaaaaacatt tcattctaaa 420
 acttccttaa gacaaaggaa aacaaaaaac catgctctac aacttcaaat tttcttaca 480
 aagaaaaatt taatat 496

<210> 280
 <211> 701
 <212> DNA

<213> Homo sapiens

<400> 280

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ggaaaccatg tcaatcatgt taatagtgtat aggagagatt cccctcagca gaccaatacc 120
acccaccgtc ccttgcatgt ccaaaggcct tcaattccac ctgcaagtga tactgagaaa 180
ccgctgttcc ctccagcagg aaattcggtg tgtcataacc atcataacca taattccata 240
ggaaagcaag ttccacacac acaaatgcc aatctcaata atgccaatat gtccaaagct 300
gcccattggaa agcgggccag catagggaac ctgagcatg tgtctgaaa tgggcatcat 360
tcttccaca agcatgaccg ggagcctcag agaagggtcca gtgtgaaaag gtccgactca 420
ggagatgaac agtcccaac tattggccgg gaagaccag agatacatgg ctatttcagg 480
caccaccacg gcttggggga gcaggagtat ttcatgtgtg aggaatgcta cgaggatgac 540
agctcgccca cctggagcag gcaaaactat ggctactaca gcagataccc aggcagaaac 600
atcgactctg agaggcgcca ggctacatca tccaagatt ctggaggaga tgactcgccg 660
ttgtatgat cagagatct caagagagct atactccac c 701

<210> 281

<211> 515

<212> DNA

<213> Homo sapiens

<400> 281

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ttggctctat ttcttctact tctggatagc ccgagtaaaa atactaataa ttctagatt 180
ttagtgggga actacaatta ttaggacca tggatattgc tgcagttcaa atacaatata 240
gtaattacaa aatatagacc atctctttac aaatccaat tatagtatat tacaagtcac 300
gtaccgtaaa tctattttta acaactagg gtatctaagt ttacctggtt gcaagtgcac 360
tattattcca gtttacagt gcccttagcg tgacagtcag aaaccgacca tcggagtgat 420
attctcttat gtaactggc gtcacatcac agaaaacctt atttattgg gggaaagggt 480
ttaaaaatgg atatgttggg cccagtgcac gatac 515

<210> 282
<211> 258
<212> DNA
<213> Homo sapiens

<400> 282
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gtgatgccac aagacccaac agagagagac acagagtcca ggataatgtt gacagtgggtg 120
tagcccttta ggagaaatgg cgctccctgc ggctggtatt aggttaccat tggcaccgaa 180
ggaaccagga ggataagaat atccataatt tcagagctgc cctggcaccg tacctgcccc 240
gtcggaggct ctactgg 258

<210> 283
<211> 510
<212> DNA
<213> Homo sapiens

<400> 283
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gacgagcccg acatctccta ccggactttc acaccagcca gcctgactgt ccccagcagc 120
ttccggaaca aaaacagcga caagcagagg agtgcggaca gcttgggtgga ggcagtcctg 180
atatccgaag gcttgggacg ctatgcaagg gacccaaaat ttgtgtcagc aacaaaacac 240
gagatcgctg atgcctgtga cctcaccatc gacgagatgg agagtgcagc cagcacctg 300
cttaatggga acgtgcgtcc ccgagccaac ggggatgtgg gccccctctc acaccggcag 360
gactatgagc tacaggactt tggctcctggc tacagcgacg aagggccaga ccctggggagg 420
gatgaggagg acctggcgga tgaatgata tgcataacca cctttagacc cccagcgagg 480
ggcagactgg ctctggcctc aggtggggcg 510

<210> 284
<211> 405
<212> DNA
<213> Homo sapiens

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<222> (75)..(75)
<223> a or g or c or t/u

<220>
 <221> misc_feature
 <222> (142)..(142)
 <223> a or g or c or t/u

 <400> 284
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 gccacatccc cgttntcgg gacgcacgac ccattaagca ggggtgctggc tgccccctcc 120

 atctcgtcga tggagaggtc ancaggcatc agcgattcg tgtttgtgt gcgtgacaca 180

 aattttgggt cccttgata cgcgtccac agccttacgg agtatcagcg actgctctcc 240

 accaatgctg cccgcgactc ctactgettg tccgctgttt ttggttccgg aagctgctgg 300

 ggacagtcag gctggctggt gtgaaagtc ggtaggagat gtcgggctcg tctgtgtacc 360

 aggagctgcg gtgcagggac ggcaggctgc cgttcacctg gtccg 405

<210> 285
 <211> 892
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> a or g or c or t/u

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> a or g or c or t/u

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 <223> a or g or c or t/u

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<222> (835)..(835)

<223> a or g or c or t/u

<400> 285

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ccatgttact ctgtataaaa atgctaata ggaattctg aatcaataat gctccaatga 120

aggacagaat ttaattagaa acaacactaa ccacaagagc ctgacacaac ccaaactcag 180

agcttctgg taatctcaat gcgatggatt cattacacag accatcttat taaaattctc 240

atctgagagc taatcagcat tgaatgcac atttatttta tgacacaaa attaactgca 300

gtgattcttt aagcatgggg acacgtgact cccactctca gccccgaggg atgacagcca 360

agagcctggc ttctgcccaa gattccatcc gtttgggtc gcagtgcacg gtcaaccatg 420

atccacaaag cagcaaccg ggggctgtag ctgccgtgat gcgggggtaa gcctggcagg 480

ctgcaactgt tgcagggctc ccaacacagc ccctggacaa acgcgtcagg ggaaaatagg 540

gttacctggc aatcttttc ctctctttt ctccgcttc ttcttctga gcagtgtca 600

gactttcagc atcagccaaa gtgtctacag cgatggccaa gaagacattc agtagaatat 660

ctaattacaa cttttaagg gcacaacaca ctactaatg caactacgtg cggccaacaa 720

tggcaacgcc acacacctct gcatcccgga aagctgggta gtaggtgacg tccccaagtg 780

ttatactcac acagcaaacc tagagtacca gagccctgct ttcaaacaa nacanaacaa 840

acaaacaacc caaagtaaaa cctggtaagg gacgtcttca gaagtaaatt ac 892

<210> 286

<211> 425

<212> DNA

<213> Homo sapiens

<400> 286

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acaggtgaca ctgcaccgag aggtaacgtg gccctcacag cccaccacgc ctggccttcg 120

cccaattctg aaacttcgta ggatagagct ggaaagtggc acatggtgaa gcgagatcca 180

gctgtctggg tggatgctgg agctccatag gctgagcaga gatggttctt agtgaggttc 240

tcgctgccag ttgacgggta aatcatagct gccatttaca tttgtgaga ttatgaaaaa 300

cataagacta aagaaactaa atgtgttatt cctgtggaca caaaaatgtg tgttttcag 360
atggggaggg gaccaaaaag gaaaaacatt tcattctaaa actttcctaa gacaaaggaa 420
aaca

425

<210> 287
<211> 441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)..(10)
<223> a or g or c or t/u

<400> 287
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gggcaatttt ttcttcatg ttcaactcgg agatccttcg aggacggggg ccggcaggaa 180
cctcaggttc atctctctcc tcttctctt cctcttccc tacgggcaca tcgcaaggcg 240
gataggggtc cttgtcttca tctcttctc tatagtcac aattgtaacc ttgtgtcac 300
tgttggtat ctggttgact tctggttgt tggtctttt atttctagg ctctctttc 360
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cagcatcagc caaatggtct a

441

<210> 288
<211> 165
<212> DNA
<213> Homo sapiens

<400> 288
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tggagatctc cgtgaatcat agcaaacggg cgagtcacg tctacaaga atcctagtgg 120
atgatgtag cctcggggcc tctcagagtc gatgtttctg cctgg 165

<210> 289
<211> 330
<212> DNA

<213> Homo sapiens

<400> 289

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agaggtcccg tcgtctccca tcttccccca tcgcacggcc ctgcctctgc atctaataca 180
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tcaactgacc cggccgtggg ccacccctcc agcaaccctt ccctaccggg actggacacc 300
gtgctacacc ccccatgatga cgccgatga 330

<210> 290

<211> 401

<212> DNA

<213> Homo sapiens

<400> 290

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cctcccaccc cagcatccca ccggagatcc tccttcaact ttgagtgcct gcgccggcag 180
agcagccagg aagaggctcc gtcgtctccc atcttcccc atgcacggc cctgcctctg 240
catctaatagc agcaacagat catggcagtt gccggcctag attcaagtaa agcccagaag 300
tactaccga gtcactcgac ccggctgtgg gccacccctc cagcaacccc tcctaccgg 360
gactggacac cgtgctacac ccccatgatg acgccgatg a 401

<210> 291

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (354)..(355)

<223> a or g or c or t/u

<220>
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<222> (373)..(373)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (401)..(401)
<223> a or g or c or t/u

<400> 291
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tctagggcgg caactgcat gatctgtgc tgcattagat gcagaggcag ggccgtgca 180
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aagttgaagg aggatctccg gtgggatgct ggggtgggag gtagtaggcg tctccttga 300
gatctccgtg aatcatagca nacgggcgag tcactgtcct ccaagaatcc ttgnngatga 360
tggtagcctc ggngcctctc agagtcatg ttctgcctg ngatctgct cgggcgagcc 420
ggtaccgagc t 431

<210> 292
<211> 330
<212> DNA
<213> Homo sapiens

<400> 292
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tctagggcgg caactgcat gatctgtgc tgcattagat gcagaggcag ggccgtgca 180
tgggggaaga tgggagacga cgggacctct tcctggctgc tctccggcg caggcactca 240
aagttgaagg aggatctccg gtgggatgct ggggtgggag gtagtaggcg tctccttga 300
gatctccgtg aatcatagca aacgggcgag 330

<210> 293
<211> 183
<212> DNA
<213> Homo sapiens

<220>
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<222> (42)..(42)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (70)..(70)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (133)..(133)
<223> a or g or c or t/u

<400> 293
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ccaaaatttn tttagcaaac aaaacacgaa atcgctgatg cctgtaacct caccatcgac 120
gagatggaga gtncagccag caccctgctt aatgggaacg tgcgtccccg agccaacggg 180
gat 183

<210> 294
<211> 132
<212> DNA
<213> Homo sapiens

<400> 294
aagaaatagg aggataagaa tatcatattt cagagctgcc ctggcacagt acctgccccg 60
tcggaggctc tcactggcaa atgacagctc tgtgcaagga gcaactccaa gtataaaaat 120
tattacacag tt 132

<210> 295
<211> 358
<212> DNA
<213> Homo sapiens

<400> 295
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cagtacctgc cccgtcggag gctctcactg gcaaatgaca gctctgtgca aggagcactc 120
ccaagtataa aaattattac atagttttat tctgaagaac attttgcatt ttaataaaaa 180
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taagaatgtc ttaagaagag gtttgaagg tcttcataac aaagtgggtg ttgtatttta 300

caaaaaaaaa aaaaaaaaaa atttttatac cgggtttgtc tgtatacaa tttctctg 358

<210> 296

<211> 289

<212> DNA

<213> Homo sapiens

<400> 296

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ataaacctat catctttcca caagatatac cagatgacta ttgcagctct tttctttggg 180

caagagtcc atgattttga tactgtacct ttggatccac catgggttgc aactgtcttt 240

ggttttgttt gtttgacttg aaccaccctc tggaaagcta ctctggaaa 289

<210> 297

<211> 889

<212> DNA

<213> Homo sapiens

<400> 297

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ccaaggatat cgaaggcttg ttgggagcgg gaggggggcg gaatctgtgc gccactccc 180

tctctgacca gccaccagc gcgctacgt tgatgcctgt gtcaatatgc cccctgac 240

tgccaggctc ggggagcggc caaaagcaat gccacccta tgctctgggg gtgcccaggg 300

gactgtcccc ggctccgtgc cttatggta ctgtggggcg gggtacatac tctgcagag 360

ttgtcccga gctcgtgaa acctgtgcc gaggagagcc acctggcgg taccgggaa 420

gactccccag ggcggaaga gtacccagc ggcccaatga gttgtgttc tatcgggata 480

tccgggacct accaggccta tgtcaggtg ctggacgtgt cctgtgtgc agactctggg 540

tgtccgtgga gcaccggaca ttggctcgt gtggcctgtg gccggtacca gtcttgggt 600

ctcgtgtgt ggctggacac gccggttg ttcgctggag accgcacca ccaggttcct 660

ttgggagggc cgtttgcag actccggggg aggccctct gaggcggggc ctttcgggg 720

gggcgaagaa agctttccga cgcaggcgct tgcggagctg gcgggacatc gggacacttc 780
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 ccaaggatat cgaaggcttg ctgggagcgg gaggggggcg gaatctggtc gccactccc 180
 ctctgaccag ccaccagcg gcgcctacgc tgatgcctgc tgtcaactat gcccccttg 240
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 gatatccggg aacctaccag cctatggcca gttacctga cgtgtcttg gtgcagactc 540
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<211> 727

<212> DNA

<213> Homo sapiens

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aaggatatcg aaggcttgct gggagcggga ggggggcgga atctggtcgc cactccct 180

ctgaccagcc acccagcggc gcctacgtg atgcctgctg tcaactatgc ccccttgat 240

ctgccaggct cggcggagcc gccaaagcaa tgccacctat gccctggggt gcccagggg 300

acgtccccag ctccctgcc ttatggttac ttggaggcg ggtactactc ctgccgagt 360

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actccacgg cggggaaga gtacccagc cgccccactg agtttgcctt ctatccggga 480

tatccgggaa cctaccagcc tatggcagt tacctggacg tgtctgtgtt gcagactctg 540

ggtgctcctg gagaaccgcg acatgactcc ctgttcctg tggacagtta ccagtctgg 600

gctctcgtg gtggctggaa cagccagatg tgttgcagg gagaacagaa cccaccaggt 660

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ctttcgt 727

<210> 300

<211> 793

<212> DNA

<213> Homo sapiens

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gctccatgga gcccggaat tatgccacct tggatggagc caaggatata gaaggcttgc 180

tgggagcggg aggggggagg aatctggtcg cccactcccc tctgaccagc caccagcgg 240
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 gccacattgg atggagccaa ggatatcgaa ggcttgcctg gaggggagg ggggcggaat 180
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<210> 302
<211> 614
<212> DNA
<213> Homo sapiens

<400> 302
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cgccagatta ccatctggtt tcagaaccgc cgggtcaaag agaagaaggt tctcgccaag 180
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aaaaacctcg tgcc 614

<210> 303
<211> 318
<212> DNA
<213> Homo sapiens

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ccaggttctt tgggaaccct ggtggagtgg gctgtcacat ggggttcctg ctccctgcac 240
atactgggta cccaggccgc tcctgaggaa cagtccagca accagtggcc tgggaagggt 300
gttgtctcta ggggcctc 318

<210> 304
<211> 1483
<212> DNA
<213> Homo sapiens

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gcttgctggg agcgggaggg gggcggaatc tggcgccca ctccccttg accagccacc 180
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gaggacattc cgcgggagcg cccaccgtg ggctacgtgg gtcgcgaccc ggcggggcgc 1440

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<210> 305
<211> 758
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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ggatggagcc aaggatatcg aaggcttgct gggagcggga ggggggcgga atctgtcgc 180
ccactccct ctgaccagcc acccagcggc gcctacgtg atgcctgtg tcaactatgc 240
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cacgaacccc acccggtcc ccttttggg aaagggcagc cattttggc agccttcaa 720
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<211> 476
<212> DNA

<213> Homo sapiens

<400> 306

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ctgctgagag gccctagag acaacacct tcccaggcca ctgctgctg gactgttct 360
caggagcggc ctgggtacct agtatgtga gggagacgga acccatgtg acagccatt 420
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<210> 307

<211> 552

<212> DNA

<213> Homo sapiens

<400> 307

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tctgtagac ac 552

<210> 308

<211> 447

<212> DNA

<213> Homo sapiens

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 ctcgagagcg cagattacca tctggttca gaaccgccgg gtcaaagaga agaaggttct 180
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 caggagcggc ctgggtaccc agtatgtgca gggagacgga acccatgtg acagcccact 420
 ccaccagggt tccaaagaa cctggcc 447

<210> 309
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 309
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 tctctagggg ccttcaaca aagtccttg cccagcctg ggcttggcag gttcctggtc 360
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<210> 310
 <211> 405
 <212> DNA
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 <223> a or g or c or t/u

<220>
 <221> misc_feature

<222> (380)..(380)

<223> a or g or c or t/u

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aagaaggttc tcgccaaggt gaagaacagc gctaccctt aagagatctc ctgcctggg 180

tgggaggagc gaaagtgggg gtgtcctggg gagaccagga acctgccaag cccaggctgg 240

ggccaaggac tctgctgaga ggcccctaga gacaacaccc ttcccaggcc actggctgct 300

ggactgttcc tcaggagcgg cctgggtacc catgtatgtg caggagacg gaaccccatg 360

tgacagccca ctccaccagn gttcctaaag aaccctggcc agtea 405

<210> 311

<211> 369

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<223> a or g or c or t/u

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<221> misc_feature

<222> (318)..(318)

<223> a or g or c or t/u

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naagcatat gccaccnat gcctggggt gcccagggg aacgtccca gctccctgc 360

cttatggtt 369

<210> 312

<211> 374

<212> DNA
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<210> 313
<211> 337
<212> DNA
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accagtactc agctgccatg atcgttagcc tcatatt 337

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<211> 452
<212> DNA
<213> Homo sapiens

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aagaacctgg cccagtcata atcattcatc ctgacagtgg caataatcac gataaccagt 300
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 gaaaccgctt tcatgaattg agctaattat gaatagattt ggaaggggaa aaaagtggaa 420
 aaagttttgc ccaaagtggg tegttaactg cg 452

<210> 315
 <211> 358
 <212> DNA
 <213> Homo sapiens

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 aggggtggctg cctgggcac agggtttcag cgagctccgg gacactcggc aggagtagta 300
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 <211> 474
 <212> DNA
 <213> Homo sapiens

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<211> 739
<212> DNA
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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cgacatgact cctgntgcc tgtggacagt taccagtctt gggctctcgc tgggtgctgg 660
aacagccaga tgtgtgnca gggagaacag aaccaccag gtccctttg gaaggcagat 720
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<210> 318
<211> 924
<212> DNA

<213> Homo sapiens

<400> 318

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agataacctg gccccactc ataatcatt tcttccggg ccggggggcca atcattcccc 840
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<211> 566

<212> DNA

<213> Homo sapiens

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<222> (541)..(541)

<223> a or g or c or t/u

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 tccacaggca acagggagtc atgtcgcggt tetccaggag caccagaggt ctgcaccaca 180
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 aactcaatgg ggcggctggg gtactcttcc ccggccgtgg gagtctccgc ggggtacgcg 300
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 taccgcctc caaagtaacc ataaggcacg ggagctgggg acgtcccctg gggcacccca 420
 nggcatgggt ggcattgctt tggcggtcc gccgagctg gcagatcaa gggggcatag 480
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 <223> a or g or c or t/u

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 tccacaggca acagggagtc atgtcgcggt tetccaggag caccagaggt ctgcaccaca 180
 gacacgtcca ggtaactggc cataggctgg taggttcccg gatatcccg atagaaggca 240
 aactcagtg ggcggctggg gtactcttcc ccggcgtggg agtctccgcg ggggtacgcg 300
 ccagggtggc tgcctgggca cagggtttca gcgagctccg ggacactcgg caggagtagt 360
 accgcctcc aaagtaacca taaggcacgg gagctgggga cgtcccctgg ggcaccccag 420
 ggcatgggtg gcattgctt ggcggtccg ccgagcctgg cagatccaag gnggcatagt 480

tgacagcagg catcagcgta ngcgccgctg ggtggctgtc aagagg 526

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<211> 471
<212> DNA
<213> Homo sapiens

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cagatgtgtt gccagggaga acagaaccca ccaggtcctt ttggaaggc agcatttgca 180
gactccagcg ggcagcacc tcctgacgc tgcgccttc gtcgcgccg caagaaacgc 240
attccgtaca gcaaggggca gttgcgggac tggagcggga gtatgcggct aacaagttca 300
tcaccaagga caagaggcgc aagatctcgg cagccaccag cctctcggag cgccagatta 360
ccatctggtt tcagaaccgc cgggtcaaag agaagaagg tctcgccaag gtgaagaaca 420
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<210> 322
<211> 545
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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caccacagac acgtccaggt aactggccat aggctggtag gttcccggat atcccggata 240
gaaggcaaac tcagtggggc ggctggggta ctcttccccg gccgtgggag tctccgcggg 300
gtacgcggcc aggggtggctg cctgggcaca gggtttcagc gagctccggg acactcggca 360
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acccanggc catgggtgca ttgcttggc ggctccgccg agccctgcag atccaaggtg 480

ggcatattga cagcaggcat tcacgtatgc gccccctggg tggctgtcat attggggatt 540

gcgac 545

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<212> DNA
<213> Homo sapiens

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<222> (366)..(366)
<223> a or g or c or t/u

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<223> a or g or c or t/u

<220>
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<222> (415)..(415)
<223> a or g or c or t/u

<220>
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<222> (419)..(420)
<223> a or g or c or t/u

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agactggtaa ctgtccacag gcaacaggga gtcattgtgc ggttctccag gagcaccag 180

agtctgcacc acagacacgt ccaggtaact ggccataggc tggtaggttc ccggatatcc 240

cggatagaag gcaaactcag tggggcgact ggggtactct tcccggccgt ggggagtctc 300

cgcggggtag cgggccaggg gtggctgcct gggcaccagg ggtttcagcg agctccggga 360

cactcngcag gaaantagta cccgcctccc aaagtaacca taagcaccgg actgngggnn 420

ggacgtcccc tggggcac 438

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<211> 370

<212> DNA
<213> Homo sapiens

<400> 324
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cagcgagacc caagactggt aactgtccac aggcaacagg gagtcatgtc gcggttctcc 180
aggagcacc agagtctgca ccacagacac gtccaggtaa ctggccatag ctaggtaggt 240
tcccggatat cccggataga aggcaaactc agtggggcga ctgggggtact ctccccggc 300
cgtgggagtc tccgcggggt acgcccattg gtgctgcct gggcacaggg ttcagcgag 360
ctccgggaca 370

<210> 325
<211> 495
<212> DNA
<213> Homo sapiens

<400> 325
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agactggtta ctgtccacag gcaacaggga gtcatgtgc ggttctccag gagcaccag 180
agtctgcacc acagacacgt ccagtaact ggccataggc tggtaggttc ccggatatcc 240
cggatagaag gcaaactcag tggggcgact ggggtactct tccccggccg tgggagtctc 300
cgcggggtac gcggccaggg tggctgcctg ggcacagggt ttcagcgagc tccgggacac 360
tcggcaggag tagtaccgc ctccaaagta accataagge acgggagctg gatgcgtccc 420
ctagggcacc ccattggcatg ggtggcattg ctftggcggc tccgccgagc ctggcagatc 480
caaggaggca ctgtt 495

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<211> 408
<212> DNA
<213> Homo sapiens

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ccacaggcaa caggaggatca tgcgcgggtt ctccaggagc acccagagtc tgcaccacag 180
acacgtccag gtaactggcc ataggctggt aggttcccgg atatcccga tagaaggcaa 240
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ccagggtggc tgcctgggca cagggtttca gcgagctccg ggacactcgg caggagtagt 360
acccgcctcc aaagtaacca taaggcacgg gagctgggga cgtccctg 408

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<211> 344
<212> DNA
<213> Homo sapiens

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acacgtccag gtaactggcc ataggtggtt ggttcccga tatcccgat agaaggcaaa 240
ctcagtgggg cggtgggggt actcttccc ggccgtggga gtctccgcgg ggtacgcggc 300
cagggtggct gcctgggcac aggggttcag cgagctccgg gaca 344

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<211> 334
<212> DNA
<213> Homo sapiens

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tccacaggca acaggagtc atgcgcgggt tctccaggag caccagagt ctgcaccaca 180
gacacgtcca ggtaactggc cataggctgg taggttccc gatatcccgg atagaaggca 240
aactcagtgg ggcggctggg gtactcttcc ccggccgtgg gagtctccgc ggggtacggt 300
gccagggtgg ctgcctgggc acagggttcc agcg 334

<210> 329
<211> 288
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

<400> 329
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tctcctggc aacacatctg gctgtccag ccaccagcga gaccaagac tgtaactgt 120
ccacaggcaa caggagtgca tgtcgcggtt ctccaggagc acccagagtc tgcaccacag 180
acacgtccag gtaactggcc ataggtnggt aggttcccgg atatcccga tagaaggcaa 240
actcagtggg gcggtgggg tactcttccc cgcccgtagg agtctccg 288

<210> 330
<211> 343
<212> DNA
<213> Homo sapiens

<220>
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<222> (238)..(238)
<223> a or g or c or t/u

<220>
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<222> (300)..(300)
<223> a or g or c or t/u

<220>
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<222> (321)..(321)
<223> a or g or c or t/u

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acgtccaggt aactggccat aggtcggttag gttcccgat atcccggata gaaggcaaac 180
tcagtggggc gactggggta ctctccccg gccgtgggag tctccgagg gtacggcnac 240
agggtggctg cctgggcaca gggtttcagc gagctccggg acactcggca ggagtagtan 300

ccgcctcaaa gtaaccataa ngcacgggag ctggggacgt ccc

343

<210> 331

<211> 441

<212> DNA

<213> Homo sapiens

<220>

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<222> (379)..(379)

<223> a or g or c or t/u

<400> 331

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aaaggggacct ggtgggttct gtttccttg gcaacacatc tggctgttc agccaccage 120

gagagcccaa gactggtaac tgtccacagg caacaggag tcatgtcgcg gtttcagg 180

agcaccaga gtctgcacca cagacacgtc caggtaactg gccataggct gtaggttc 240

cggatatccc ggatagaagg caaactcagt ggggcgactg ggtactctt cccggcccg 300

gggagtctcc ggggggtacg cggccagggt ggctgcctgg gcacagggtt tcagcgagct 360

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ggaaccgtcc cctggggcac c

441

<210> 332

<211> 729

<212> DNA

<213> Homo sapiens

<400> 332

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ccatggagcc cggcaattat gccaccttg atggagccaa ggatatcgaa ggcttgctgg 120

gagcgggagg ggggcggaat ctggtgccc actcccctct gaccagccac ccagcggcgc 180

ctacgtgat gcctgctgtc aactatgcc cttggatct gccaggctcg gcggagccgc 240

caaagcaatg ccacccatgc cctgggggtgc cccagggacg tccccagctc ccgtgcctta 300

tggttacttt ggaggcgggt actactcctg ccgagtgtcc cggagctcgc tgaaaccctg 360

tgcccaggca gccacctgg ccgcgtacc cgcggagact cccacggccg gggaagagta 420

cccagccgc ccactgagt ttgccttcta tccgggatat ccgggaacct accagcctat 480
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 ccagatgtgt tgccagggag aacagaacct accaggtccc ttttggag gcagcatttg 660
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 tctcagg 729

<210> 333
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (301)..(301)
 <223> a or g or c or t/u

<220>
 <221> misc_feature
 <222> (479)..(479)
 <223> a or g or c or t/u

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 aatgcgccgg caggcccccc accccagcc taaggtgcag gaaggaccag cacgaaccg 180
 ctggctttgc tgcgcggcca ggagatgagt cccaccgggc actgagccca ggtacaggac 240
 atcagagaat gaacacagag gcagaggccc tcatgtccct ctacaggtcc cggctctgca 300
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 ggaaaacagg gttggcacca ctctgccact ccgtttgtgc ctgggaaggg ctaagtatgc 420
 aaggctacaa acatctactt cactgggatc ccaaatgtc acaaaccat gacctctnt 480
 ggtcagaacc accagaaata tt 502

<210> 334
 <211> 282
 <212> DNA

<213> Homo sapiens

<400> 334

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gtccatgga gcctggcata ttatgccacc ttggtatgga gccaaggata tcgaaggctt 180
gtgggagcg ggaggggggc ggaatctggt cgccactcc cctctgacca gccaccacgc 240
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<210> 335

<211> 381

<212> DNA

<213> Homo sapiens

<220>

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<223> a or g or c or t/u

<400> 335

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gcaacaggga gtcattgtcg ggttctccag gagcaccag agtctgcacc acagacacgt 180
ccaggttaact ggccataggt nggtaggctc ccgatatcc cggatagaag gcaaacctag 240
tggggcggtt ggggtactct tccccggccg tgggagtctc cgcggggtac gcgcacaggg 300
tggctgcctg ggcacagggt ttcagcgagc tccgggacac tcggcaggag tagtaccgc 360
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<210> 336

<211> 405

<212> DNA

<213> Homo sapiens

<400> 336

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ccccagcct aaggtgcagg aaggaccagc acgaaccgc tggctttgct gcgcggccag 180

gagatgagtc ccaccgggca ctgagcccag gtacaggaca tcagagaatg aacacagagg 240
cagaggccct catgtccctc tcagagtcct ggctctgcaa agagcccgtc tgtctccagc 300
ttccagaatt ccgcactgtg aatctgtcta cgtggactgg gaaaacaggg ttggcaccac 360
tctgccactc cgtttgtgcc tgggaagggc taagtatgca aggct 405

<210> 337
<211> 328
<212> DNA
<213> Homo sapiens

<400> 337
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ccctcctgt ccacccata ggggtgacc actggtctg gaagcaccca tccttaatac 240
gatgatttt ctgtcgtgtg aaaatgaagc cagcaggctg cccctagta gtccttctt 300
ccagagaaaa agagattga gaaagtga 328

<210> 338
<211> 320
<212> DNA
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gacagcctct acaattgtcc acctaccag ctgtcagctg agaaaaatgc taaacggaca 240
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 ggtgagaggt gtaatggaag g 321

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 <211> 354
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 <213> Homo sapiens

<400> 340
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 aatgcgccgg caggcccccc acccccagcc taaggtgcag gaaggaccag cacgaaccg 180
 ctggctttgc tgcgcggcca ggagatgagt cccaccgggc actgagccca ggtacaggac 240
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<210> 341
 <211> 448
 <212> DNA
 <213> Homo sapiens

<400> 341
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 agtgcggaat tctggaagct ggagacagac gggctctttg cagagccggg actctgagag 180
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448

<210> 342

<211> 223

<212> DNA

<213> Homo sapiens

<400> 342

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aggagcgaaa gtgggggtgt cctggggaga ccaggaacct gccaagcca ggctggggcc 120

aaggactctg ctgagaggcc cctagagaca acaccctcc caggccactg gctgctggac 180

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<212> DNA

<213> Homo sapiens

<400> 343

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gttctttggg aacctgtgtg gagtgggctg tcacatggg ttccgtctcc ctgcacatac 120

tgggtacca ggccgctct gaggaacagt ccagcag 157

<210> 344

<211> 344

<212> DNA

<213> Homo sapiens

<400> 344

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ggcaggcccc ccacccccag cctaaggtgc aggaaggacc agcacgaacc cgctggcttt 180

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atgaacacag aggcagaggc cctcatgtcc ctctcagagt cccggtctg caaagagccc 300

gtctgtctcc agcttcaga attccgact gtgaacctcg tgcc 344

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<212> DNA
<213> Homo sapiens

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<210> 349

<211> 473

<212> DNA

<213> Homo sapiens

<400> 349

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<210> 350

<211> 514

<212> DNA

<213> Homo sapiens

<400> 350

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cccaccta atacgatgat tttctgtcg tgtgaaaatg aagccagcag gctgcccta 240

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aggctatggt ttgtgagca ttgggatcc cagtgaagta gatgtttgta gccttgcata 420

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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tagcccttec 490

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<212> DNA
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<212> DNA
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<210> 357
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 <212> DNA
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<400> 357
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 atactgggta cccagccgc tctgaggaa cagtcagca cagggttca gcgagctccg 180

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198

<210> 358

<211> 320

<212> DNA

<213> Homo sapiens

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gactgactag gggcagcctg ctggcttcat ttccacacca caaaaaaatc atcgtattaa 120

ggatgggtgc ttccaaaacc agtgggtaca ccctatgggg tggacaagga gggaggaaaa 180

aacagcctct acaattgtcc acctaccag ctgtcagctg aaaaaaatgc taaacggaca 240

tcacagccac acaacgaate tgcccgttcc cctctctca gtcttctgc tgttaccagg 300

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320

<210> 359

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<213> Homo sapiens

<400> 359

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cccaccgggc actgagccca ggtacaggac atcagagaat gaacacagag gcagaggccc 240

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tccgcactgt gaatctgtct acgtggactg ggaaaacagg gttggcacca ctctgccact 360

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421

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<213> Homo sapiens

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 <212> DNA
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<211> 575

<212> DNA

<213> Homo sapiens

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<210> 368

<211> 684

<212> DNA

<213> Homo sapiens

<400> 368

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<211> 855
<212> DNA
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<213> Homo sapiens

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<211> 1026

<212> DNA
<213> Homo sapiens

<400> 371

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<211> 1316
<212> DNA
<213> Homo sapiens

<400> 372

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 <212> DNA
 <213> Homo sapiens

<400> 373
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catttgggat cccagtgaag tagatgttg tagccttgca tacttagccc ttcccaggca 240
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 <212> DNA
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<400> 375
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ggtcgcccac tccccctcga ccagccaccc agcggcgccct acgctgatgc ctgctgtcaa 240

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<210> 376

<211> 508

<212> DNA

<213> Homo sapiens

<400> 376

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tctgagtctt cccttaatat ttctggtggt tctgacaaa gcaggctatg gtttgttgag 180

catttgggat cccagtgaag tagatgtttg tagccttgca tacttagccc ttcccaggca 240

caaacggagt ggcagagtgg tgccaaccct gtttcccag tccacgtaga cagattcaca 300

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gacatgaggg cctctgcctc tgtgttcatt ctctgatgc ctgtacctgg gtcagtgcc 420

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<211> 284

<212> DNA

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<223> a or g or c or t/u

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<222> (269)..(269)

<223> a or g or c or t/u

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ctccagcttc cagaattccg cactgtgaat ctgtctacgt ggactgngaa aacagggttg 240

gcaccactct gccactccgt ttgtgcctng gggcgggcag aggg 284

<210> 378

<211> 651

<212> DNA

<213> Homo sapiens

<400> 378

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cttggatgga gccaaaggata tcgaaggctt gctgggagcg ggaggggggc ggaatctggt 180

cgcccactcc cctctgacca gccaccagc ggcgcctacg ctgatgcctg ctgtcaacta 240

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ggtgcagact ctgggtgctc ctggagaacc gcgacatgac tcctgttgc ctgtggacag 600

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<210> 379

<211> 498

<212> DNA

<213> Homo sapiens

<400> 379

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cccaccaggt ccttttggga aggcagcatt tgcagactcc agcgggcagc accctcctga 180

cgctcgccc ttctgctcg gccgcaagaa acgcattccg tacagcaagg ggcagttgcg 240

ggagctggag cgggagtatg cggctaaca gtatcatcacc aaggacaaga ggcgcaagat 300

ctcggcagcc accagcctct cggagcgcca gattaccatc tggttcaga accgccgggt 360

caaagagaag aaggttctcg ccaaggtgaa gaacagcgct accccttaag agatctcctt 420
gcctgggtgg gaggatctaa agtgggggtg tcctggggag accaggaacc tgccaagccc 480
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<210> 380
<211> 233
<212> DNA
<213> Homo sapiens

<400> 380
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<210> 381
<211> 539
<212> DNA
<213> Homo sapiens

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<210> 382
<211> 240
<212> DNA
<213> Homo sapiens

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 atcgaaggct tgcctgggagc gggagggggg cggaatctgg tcgcccactc ccctctgacc 180
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<210> 383
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 383
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 agagtccctg gccccagcct gggcttggca ggtccctggt ctcccagga cccccact 360
 ttgcctctc ccaccaggc aaggagatct ctaaggggt agcgtgttc ttcacctgg 420
 cgagaacctt cttctcttg aaccggcggg gcggcgtggg gtaccgagc 469

<210> 384
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 <213> Homo sapiens

<400> 384
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 tctgagtctt ccctaatat ttctgggtg tctgacaaa gcaagtcag gttgttgag 180
 catttgggat cccagtgaag tagatgttg tagccttgca tacttagccc ttcccagga 240
 caaacggagt ggcagagtgg tgccaacct gtttccag tccacgtaga cagattcaca 300
 gtgcggaatt ctggaagctg gagacagacg ggctcttgc agagccggga ctctgagagg 360
 gacatgaagg cctctgcctc tgtgttcatt ctctgatgc ctgtacctgg gtcagtgcc 420

cggtgggact catctcctgg ctgcgcagca aagccagcgg gttcgtgctg gt 472

<210> 385
<211> 450
<212> DNA
<213> Homo sapiens

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<210> 386
<211> 472
<212> DNA
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<210> 387
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<212> DNA

<213> Homo sapiens

<400> 387

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<210> 388

<211> 459

<212> DNA

<213> Homo sapiens

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<220>

<221> misc_feature

<222> (439)..(440)

<223> a or g or c or t/u

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<222> (443)..(443)

<223> a or g or c or t/u

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<223> a or g or c or t/u

<400> 388

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ggcggagccg ccaaagcaat gccacccatg ccctggggtg ccccagggga cgtccccagc 360

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gctgaaacce tgtgccann canccacct ggccgcgtg 459

<210> 389

<211> 156

<212> DNA

<213> Homo sapiens

<400> 389

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atctctggc tgcgcagcaa agccagcggg ttcgtgctgg tccttctgc accttcggct 120

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<210> 390

<211> 467

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<222> (233)..(233)

<223> a or g or c or t/u

<400> 390

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tgcagggaga cggaaccca tgtgacagcc cactccacca gggtcccaa agaacctggc 300

ccagtcataa tcattcatcc tgacagtggc aataatcacg ataaccagta ctacttgcca 360

tgatcgtag cctcatatti tctatctaga gctctgtag gcactttaga aaccgtttc 420

atgaattgag ctacttatga atcacttga accggcgggtg cggcgtg 467

<210> 391

<211> 666

<212> DNA

<213> Homo sapiens

<220>

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<223> a or g or c or t/u

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tgctgggagc gggagggggg cggaatctgg tcgccactc ccctctgacc agccaccag 180

cggcgcctac gctgacgcct gctgtcaact atgccccctt ggatctgcca ggctcggcgg 240

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catttg

666

<210> 392

<211> 664

<212> DNA

<213> Homo sapiens

<400> 392

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tctctagcg tctcagcacc aatgggtca gacctccca ccgctgctg cttttctac 180

accgcgagga agcttctcg caacttttg gtagattact atgagaccag cagcctctgc 240

tccagccag ctgtggtatt ccaaacaaa agaagcaagc aagtctgtgc tgatccagc 300

gaatctggg tccaggagta cgtgtatgac ctggaactga actgagctgc tcagagacag 360

gaagtctca gggaaggta cctgagcccg gatgcttctc catgagacac atctctcca 420

tactcaggac tctctccgc agttcctgtc ccttctctta attaatctt tttatgtgc 480
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 cattgaltc tgtgtgttt cataataaaa ctttaaata aaatgcaaaa aaaaaaaaaa 660
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<210> 393
 <211> 1308
 <212> DNA
 <213> Homo sapiens

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 acacacaggg gctgccagaa gctgccggtt tctggggagg cattacaagc gggagttcag 180
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<213> Homo sapiens

<400> 410

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